Operation/Reference Guide

MAX-AVP

Audio-Video Player

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MAX-AVP Audio/Video Player

Overview

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The MAX-AVP (FIG. 1) Audio-Video Player provides standard media playback and control functionally, featuring multiple audio and video outputs. The MAX-AVP functions as a standalone player, and as a player for MAX server content. Key features of the AVP include (See *Product Specifications* on the following page for details):

- Plays DVDs (and audio CDs) from its internal DVD/CD player.
- Plays audio and video content over a CAT5 network interface from a MAX-HT server.
- Provides A/V output in multiple formats: Component Video, Composite Video, S-Video and HDMI™ (High-Definition Multimedia Interface).
- Provides both analog stereo and coaxial digital audio outputs. The supported digital audio outputs are Dolby® Digital (S/PDIF), Dolby® Digital-Plus (Surround 5.1, 7.1), and DTS® Surround.

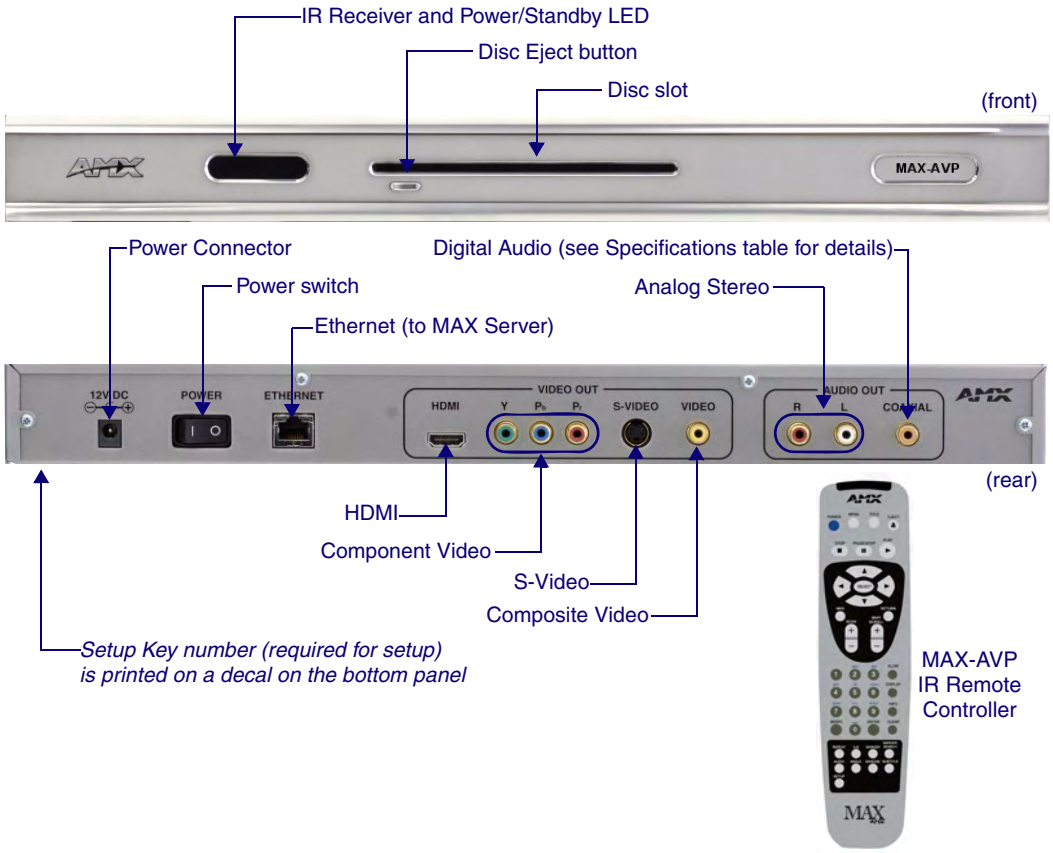


FIG. 1 MAX-AVP

Use the included hand-held IR remote controller to control the AVP, and navigate the MAX-AVP User-Interface to select server-based media content (CDs and DVDs) for playback, as well as configure the AVP. For details on the remote controller and the built-in User-Interface:

- Refer to the *MAX-AVP Remote Controller* section on page 17.
- Refer to the *MAX-AVP User Interface* section on page 21.

Product Specifications

MAX-AVP (FG2178-51) Specifications			
Power:	• 13.5 VDC 4.4A external power supply (included) • 110-240 VAC 50/60 Hz		
Current Draw:		Peak	Running
DC:	• Current: • Watt:	0.94 12.502	0.74 9.82
AC:	• Current: • Watt:	0.125 14.925	0.101 12.0594
Supported media types:	• DVD • DVD+R/-R/-RW/+RW • Audio CD		
Supported formats:	• MPEG-2 MP/ML • AC3 audio • MP3 audio • LPCM audio • PCM audio • MPEG2 Layer 2 audio • FLAC audio		
Video outputs:	• Composite video • RGB Component video • S-Video • HDMI™ (High-Definition Multimedia Interface)		
Video broadcast standards	• NTSC • PAL		
Supported Resolutions:	• See *Supported Resolutions* table for detailed specs.		
Supported Aspect Ratios:	• 4:3 - Pan & Scan (full screen) • 4:3 - Letterbox • 16:9 - Widescreen		
Audio Outputs:	• Digital: - Dolby® Digital (S/PDIF) - Dolby® Digital-Plus (Surround 5.1, 7.1) - DTS® Digital Surround • Analog: stereo		
Front Panel Components:	• IR Receiver and Power/Standby LED • CD/DVD-ROM drive slot • Disc Eject button		

MAX-AVP (FG2178-51) Specifications (Cont.)	
Rear Panel Connectors:	• 1/4” DC power connector • Power Switch • Ethernet port: RJ-45 Ethernet port provides 10/100 network connectivity between the AVP and the MAX server • HDMI™ output: 19-pin HDMI cable connector • Component Video output: 3 RCA connectors (Green, Blue, Red) • S-Video output: Mini-Din4 port • Composite Video output: RCA connector (Yellow) • Analog Audio outputs (R/L): RCA connectors (Left = White, Right = Red) • Coaxial (digital) Audio output: RCA connector (Orange)
Operating Environment:	• Operating temperature: 0º to 50º C (32° to 122° F) • Storage temperature: -45º to +85º C (-49° to 185° F) • Operating relative humidity: 5% to 85% (non-condensing) • Intended for indoor use only
Dimensions (HWD) (without rack ears):	• 2" x 17" x 12.44" (50.67 mm x 431.80 mm x 316.10 mm) • 1 RU (mounts in a standard 19” equipment rack)
Weight:	10.10 lbs (4.58 kg)
Included Accessories:	• AMX PS4.4 Power Supply (**FG423-44**) • Handheld IR Remote Controller (**FG2178-52**) • Audio/Video Cables (one of each): - HDMI™ cable (6.5’ / 2.0m - **FG10-2178-05**) - Component Video cable (6’ / 1.82m - **FG10-2178-05**) - S-Video cable (6’ / 1.82m - **FG10-2178-01**) - Composite Video cable (6’ / 1.82m - **FG10-2178-04**) • Rackmount brackets (set of 2 - **FG62-2178-46**)
Other AMX Equipment:	• NXA-ENET24 Managed Ethernet Switch (**FG2178-60**)
Certifications:	• FCC/CE Class B • EN60950
Trademark Acknowledgements:	• HDMI, and “High-Definition Multimedia Interface” are trademarks or registered trademarks of HDMI Licensing LLC. • “Dolby” and the double-D symbol are trademarks of Dolby Laboratories. • “Dolby Digital” and “Dolby Digital-Plus” are registered trademarks of Dolby Laboratories. • “DTS” is a registered trademark of DTS, Inc.

Supported Resolutions

MAX-AVP Supported Resolutions		
Mode Name	**Resolution**	**Outputs**
NTSC (M)	525 line (480vis), 60 Hz, Interlaced, standard NTSC	• Composite • Component • HDMI
NTSC (M) Japan	525 line (480 vis), 60 Hz, Interlaced, NTSC with Japanese black-level	• Composite • Component • HDMI
PAL (BG)	625 line (576 vis), 50 Hz, Interlaced, standard PAL	• Composite • Component • HDMI
PAL M	525 line (480 vis), 60 Hz, Interlaced, NTSC framing with PAL color	• Composite • Component • HDMI
PAL 60	525 line (480 vis), 60 Hz, Interlaced, NTSC framing with PAL color	• Composite • Component • HDMI
Mode Name	**Resolution**	**Outputs**
480i60	525 line (480vis), 60 Hz, Interlaced, standard NTSC	• Composite • Component • HDMI
480p59	525 line (480 vis), 59.96Hz, NTSC Progressive Scan	• Component • HDMI
576p50	625 line (576 vis), 50 Hz, PAL Progressive Scan	• Component • HDMI
HDMI-only modes	ATSC/DTSC standards for NTSC-style systems (59/60 hz) and PAL-style systems (50hz) • 720p59 • 720p60 • 720p50 • 1080i50 • 1080i59 • 1080i60 • 1080p50 • 1080p59 • 1080p60	

Media Playback

When a DVD (or CD) is inserted into the local drive, the AVP works like a stand-alone DVD player. It displays the DVD menu on the video output device. There are two ways to control the AVP:

- Use the handheld IR Remote Control (included) to navigate the MAX User Interface and DVD menus.
  - Refer to the *MAX-AVP Remote Controller* section on page 17 for details on the remote controller (including IR Code descriptions).
  - Refer to the *MAX-AVP User Interface* section on page 21 for instructions on using the MAX-AVP UI.
- Use the WinMAX software to control the AVP and manage content (DVDs/CDs) on the MAX-HT server. Refer to the WinMAX Instruction Manual for details.

The IR Remote Control also allows you to select which video source to view (either the AVP's DVD-ROM or server content).

NOTE

Playback from the AVP's local DVD drive overrides playback of content from the MAX-HT server: if you are playing content from a server, and then insert a DVD or CD into the AVP, the media being received from the server will be interrupted, and the DVD or CD will load and play.

Media Playback via WinMAX

NOTE

***WinMAX Server Control Software** is a Windows®-based application provided by AMX to enable control of MAX servers from any Windows PC. The PC must be connected to the MAX Server directly or via a network. Multiple PCs running WinMAX may control the Server simultaneously.*
WinMAX is available for download via the Dealers area of the www.amx.com website (Tech Center > Application Files).

- ***To play a DVD located on the MAX-HT Server:*** In WinMAX, open the *Movies* tab. Select the *Output Zone* that is associated with the AVP that you will use for display, then select a DVD title, and click the **Play** button.
- ***To play a CD located on the MAX-HT Server*:** In WinMAX, open the *Music* tab. Select the *Output Zone* that is associated with the AVP that you will use for playback. Then, select a CD title, and click the **Play** button.

Upgrading the AVP's Firmware

The "bilbo.ISO" file is a CD-Image file which can be opened most CD burning applications and then used to reproduce content onto a new disc. The following items are required to properly create a MAX-AVP firmware update CD:

- CD Burner
- CD burning application
- burnable media (CD-R/CD-RW)

The following procedures must be followed when updating on-board firmware:

1. Download the current MAX-AVP firmware ISO file from the Firmware Files section of the amx.com Tech Center to a local drive.
2. Load your blank media into your CD burner drive and launch your media burning application.

3. Locate your local copy of the ISO file and choose to record a new disc from a disc image (ISO image) to a new blank media (CD-R/CD-RW recommended).

Do not burn a "data disc". Do not drag and drop the ISO file. The final disc image should contain a directory of multiple files rather and a single ISO file on the disc.

4. Once the new media has been created, insert it into the MAX-AVP and cycle power to the unit. Upon restart, the AVP detects the files on the firmware update CD and begins the update process.
5. Do not interrupt this update process. Once the update is complete, the MAX-AVP will eject the disc.
6. Immediately after the disc is ejected, cycle power on the unit again.

When the unit again restarts, it has completed the update process and is now ready to use.

Configuring the MAX-AVP

Refer to the *Setup Page* section on page 46 for details on configuring the MAX-AVP.

Installation

Overview

There are two approaches to installing the MAX-AVP: either as a standalone DVD player, or as a networked component of a MAX system. Both methods are described below:

As a Stand Alone DVD Player

The MAX-AVP can be installed and used as a stand-alone DVD player, in which case it behaves like any other consumer-level A/V component and offers several A/V output options:

1. Connect one of the two audio outputs on the AVP (*Analog R/L* or *Coaxial*) to an audio amplifier.
2. Connect one of the four video outputs (*HDMI™*, *Component*, *S-Video* or *Composite*) on the AVP to a display device.

As a Networked Component of a MAX System

- MAX-HT servers communicate via Ethernet to up to 25 MAX-AVM Audio-Video Modules and/or MAX-AVP Audio/Video Players.
- Multiple AVMs and/or AVPs require a Gigabit Ethernet switch (not included) as indicated in FIG. 1.

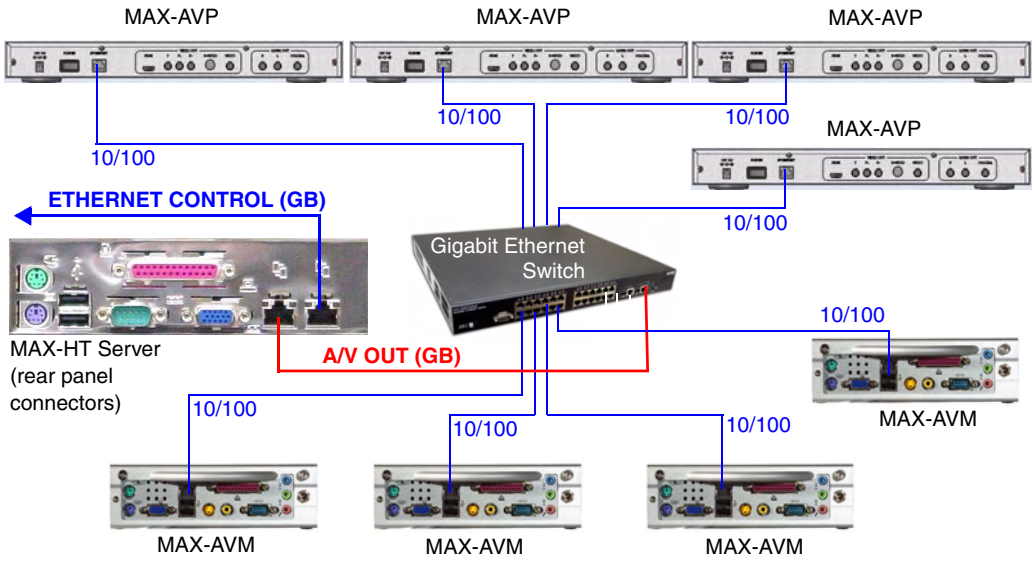


FIG. 1 Example installation using multiple MAX-AVPs and AVMs

Adding the AVP to a MAX System

There are two procedures involved in adding the MAX-AVP to a MAX System:

NOTE

IMPORTANT! *MAX-HT Servers require a 24-hour initialization period. This simply entails powering up the server and letting it charge and initiate for 24 hours before use. Failure to allow this initialization to complete may cause performance problems during media playback.*

Step One: Installing the MAX-AVP Key In the MAX-HT Server

In order for the AVP(s) in the system to be recognized by the MAX-HT server, they must each be added to the system.

Use the *Server Configuration* options in the WinMAX software application (available for download at www.amx.com) to add AVPs to the MAX-HT server.

NOTE

The process for adding AVPs to the MAX-HT server is identical to adding AVMs, and AVPs are added as AVMs in the Add Output Modules admin menu:

1. Open the *System Information* tab in WinMAX, and click on the **Server Configuration** button to access the MAX Admin menu.
2. Go to **Output Module Setup > Add Output Module > AVM** to access the *Enter Output Number* dialog.
3. In the *Enter Output Number* field, enter an available server output/zone number (*range = 1 - 33*). Click **OK** to proceed.

NOTE

The server will not allow you to assign an output to an output/zone that is already in use. To determine which server outputs are already being used, select View from the Output Module Setup menu.

- If other output modules (AOM, AVM or AVP) have already been added to the server, then assign the AVP to the next available output.
- Note that AVPs take only one output on the MAX-HT server.

4. In the *Enter Serial Number* field, enter the *Setup Key* (number) of the AVP you are adding to the system in the text box.

NOTE

The Setup Key number is printed on a decal located on the underside of each AVP enclosure.

5. The system will notify you that the module has been added to the system. Click **OK** to return to the Output Module Setup menu.

   Once the module has been added, select **View** from the Output Module Setup menu. The module you just added should appear in the list of Installed Output Modules. AVP modules are listed by output /zone number assignment, serial number and IP address.

   - Select **Remove** to remove an existing output module from the system.

Step Two: Connecting the AVP to a MAX-HT Server and Display Device

Be sure to power up the MAX-HT server before applying power to the MAX-AVP.

1. Use audio cables (not included) to connect to the audio output on the AVP to an audio amplifier.
2. Use one of the four video cables (*HDMI*, *Component Video*, *S-Video* or *Composite* to connect to the video output on the AVP to the display device.
3. Use an Ethernet cable to connect the AVP's Ethernet port to a Gigabit Ethernet switch.
4. Use an Ethernet cable to connect the Gigabit switch to the **A/V OUT** connector on the MAX-HT server.
5. Connect the AVP's included power supply.
6. Turn on the power switch (on rear panel), and allow up to one minute for the AVP to initialize.

IR-controlled devices are sensitive to plasma radiation emitted from plasma displays. For best results when mounting the MAX-AVP unit in close proximity (within 12 inches) to a plasma screen, situate the MAX-AVP so that it is not facing the screen.

DVD and CD Playback

The MAX-AVP features an internal DVD-ROM drive for playback of individual DVDs.

Once you have established communication with the AVP via WinMAX, you can use WinMAX to initiate and control playback of movies or music.

Region Code Settings

Note that for DVDs, the region code of the DVD disc must match the region code setting on the on the internal DVD drive on the AVP.

By default, AVP units are set to ***Region Code 1***.

Refer to the *DVD Region Code Settings* insert for details and instructions on changing the Region Code setting on MAX devices.

The Region Code Setting can only be changed a total of 4 times from the factory default setting.

Screensaver Operation

Screensaver timeout is a parameter that is set through the setup pages.

- The default setting is 30 minutes.
- The screensaver countdown is reset by reception of any IR code from the Remote Controller.
- The screensaver is disabled when video playback is active and not paused.
- If the screensaver timeout is set to 0, the screensaver is disabled.
- If the screensaver timeout is set to any non-zero value (1-30 minutes inclusive):
  - After screensaver timeout minutes have elapsed with no activity, the screen dims to 3/4 the current level.
  - After a second screensaver timeout period with no activity, the screen dims to 0 levels (black screen).
  - After a third screensaver timeout period with no activity, the AVP's outputs are turned off, and the unit automatically enters standby mode (see below).

Any event which resets the screensaver countdown wakes the screensaver until the unit goes to standby, ***at which point only activities which bring the unit out of standby are accepted.***

Standby Mode

If the POWER key is pressed or the screensaver times out 3x consecutively, the unit enters "standby mode." If playback was in progress when standby mode is entered, the playback is automatically stopped and a placeholder is saved if possible.

This is a feature intended to protect Plasma and CRT displays from screen burn-in, and to allow some displays to automatically shut off when they detect that the signal is no longer present.

Entering STANDBY mode

1. When the unit is ON, press the POWER key on the remote.
2. When the unit has been idle or content has been paused for the configured screensaver timeout time, the screensaver will be activated. If the unit remains idle or paused for a second screensaver timeout period, it will automatically stop any in-progress material and enter STANDBY.

Exiting STANDBY mode / Entering ON mode

When the unit is in STANDBY mode:

1. Press the POWER key on the remote. The user is taken to a splashscreen / intro screen.
2. Press the MAX key on the remote. The user is taken to the MAX menu if the unit is connected to a MAX server, or prompted to enter the setup screens otherwise.
3. Press the SETUP key on the remote. The user is prompted to enter the setup screens.
4. Press the PLAY key on the remote. If a disc is in the DVD drive, it will begin playing.
5. Eject the disc in the DVD drive. The unit will not wake up if there is no disc to eject.
6. Insert a disc in the DVD drive. The disc will automatically begin playing.
7. Issue a command from WinMAX (or the MAX server) to play content.
8. Issue a command from the MAX server to update the firmware of the AVP.

9. If a disc is in the local drive, MENU will invoke the DVD Menu.

Troubleshooting Ethernet Communications

In case of Ethernet communications problems, check the following:

- The Link (L) LED next to the Ethernet port should be on (FIG. 2). If not, check your cables and connectors.
- Connect a display device to the AVP to view the Configuration Page for the IP settings (IP Address and Subnet Mask), and verify that these settings are appropriate for your network configuration.

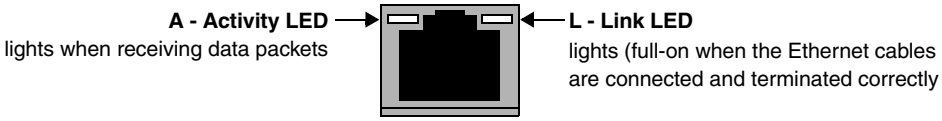


FIG. 2 Ethernet port LEDs

NOTE

Refer to the MAX Servers Instruction Manual (available online at www.amx.com), as well as the individual Installation Guides for details and installation instruction on MAX Servers.

Rack Mounting the MAX-AVP

The MAX-AVP comes with rack-ears, to allow mounting the unit in a standard 19" equipment rack - the AVP will take up a single rack space.

The rack-ear kit includes two steel rack ears and eight sets of flat washers, split lock-washers, and nuts.

The MAX-AVP rack-ears (FIG. 3) feature four mounting posts, to provide a clean installation. These mounting posts require that the rack-ears are secured to the unit from inside the chassis, so you will have to remove the cover, as described below:

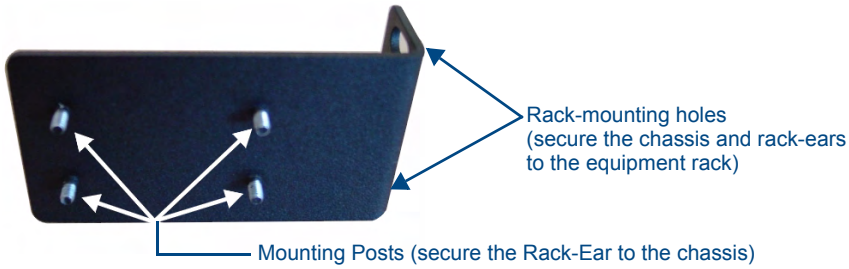


FIG. 3 MAX-AVP rack-ears

1. Turn off the AVP, and disconnect the power cord and all connecting cords.
2. Place the unit face up on a soft and dry flat surface.
3. On the rear panel, remove the four screws that secure the top of the enclosure to the bottom (FIG. 4) and keep them in a safe place for further use:

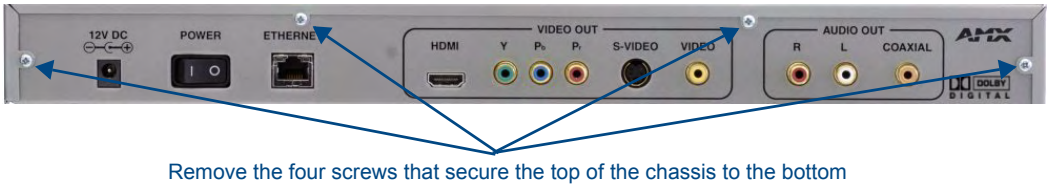


FIG. 4 Remove the four screws that secure the top of the enclosure to the bottom

4. Carefully remove the top of the chassis. The rack-ears will mount to the sides of the top section of the chassis.
5. Insert the four mounting posts on the rack-ear into a matching set of holes on the chassis, with the rack-mounting holes on the rack ears facing forward and away from the chassis (FIG. 5).

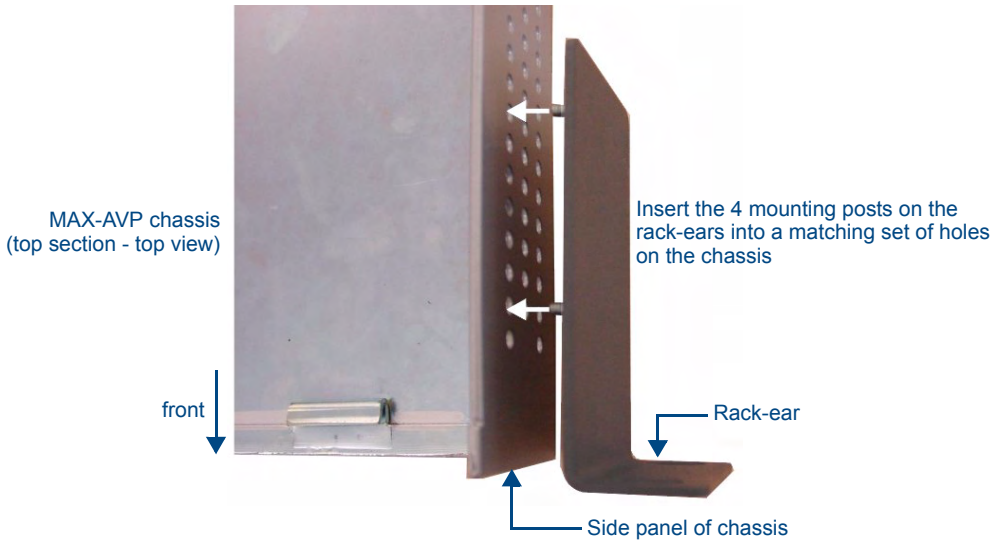


FIG. 5 Insert the four mounting posts on the rack-ear into a matching set of holes on the chassis

NOTE

There are several rows of holes on the top section of the chassis that can be used for installing the rack-ears. In this example, we'll use the second row of holes from the front to facilitate securing the washers and nuts

6. On each of the four mounting posts, install washers and secure with a nut (FIG. 6):

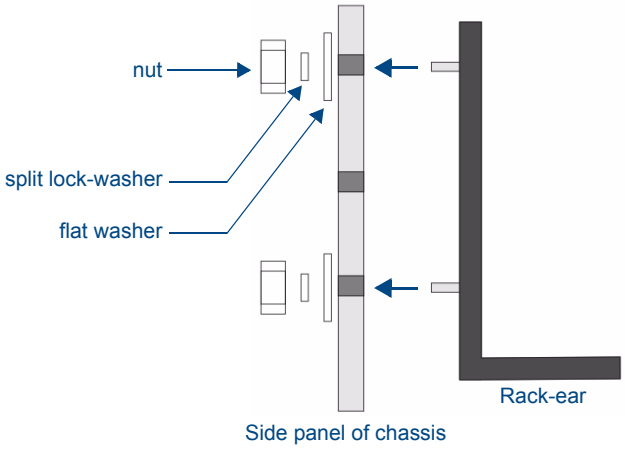


FIG. 6 Install the flat washer, split lock-washer and nut to each of the four mounting posts

   a. Place a flat washer on the mounting post, so that it rests against the inside surface of the chassis.
   b. Place a split lock-washer on top of the flat washer.
   c. Place a nut on top of the split-lock washer and secure.

   Repeat these steps for the three remaining mounting posts.
7. Repeat steps 5 and 6 to install the other rack-ear on the other side of the chassis (FIG. 7).

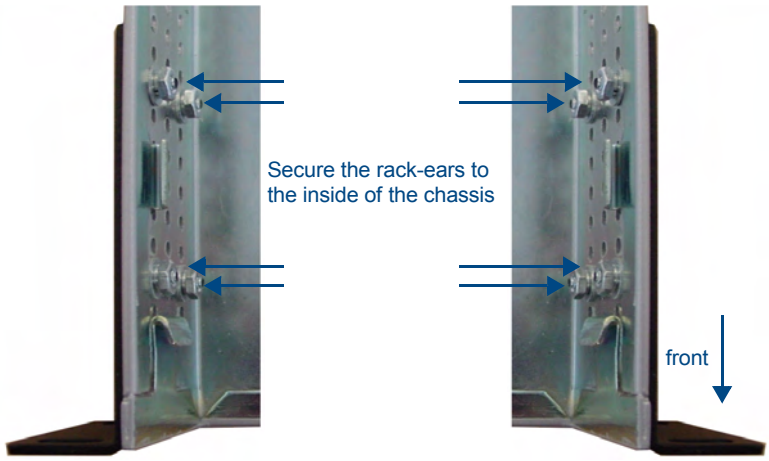


FIG. 7 Secure the rack-ears to the inside of the chassis

8. Put the chassis sections back together and secure the two sections with the four screws removed earlier.
9. Remove the "feet" from the bottom of the unit. Each foot is secured to the chassis with a single screw. Keep the feet and screws for further use.

Once the rack-ears have been installed, the AVP can be mounted into the equipment rack.

HDMI-to-DVI Conversion Cable (MDL200 Kit)

The MAX MDL200 Multi Disc Loader System comes as a kit that includes a PowerFile Multi-Disc Loader, a Windows® PC pre-loaded with all required software, pre-configured for plug and play operation, equipped with a LCD monitor, keyboard and mouse.

NOTE

Refer to the MAX MDL200 Multi Disc Loader System Installation Guide and Operation/Reference Guide (available online at www.amx.com) for detailed instructions on using the MDL200 kit to bulk-load media to a MAX Server.

The **HDMI-to-DVI conversion cable** allows you to connect the LCD monitor that comes with the MDL200 kit directly to a MAX-AVP Audio-Video Player, to access the AVP's Setup Pages.

Options in the AVP's Setup pages allow you to complete initial configurations on the AVP, including:

- Audio and video output settings
- Fine tuning options (such as brightness, contrast and saturation)
- Localization settings (including Region Code settings)

NOTE

Refer to the Setup Page section on page 46 *for details on configuring the MAX-AVP.*

You do not need the conversion cable to use the MDL200, it is included with the kit so that you can use the LCD monitor to configure a MAX-AVP. Note that the MAX-AVP is not part of the MAX-MDL200 kit.

- To connect the LCD monitor to a MAX-AVP, use the conversion cable to connect the **HDMI** output on the AVP to the **DVI** input on the LCD monitor.
- To access the AVP's setup pages, press the **SETUP** button on the AVP remote.

IMPORTANT NOTE!

Because of limitations specific to HDMI video output, the **HDMI-to-DVI conversion cable** is not suitable for viewing DVDs containing copyrighted content. This includes most commercial DVDs.

- You can use the **HDMI-to-DVI conversion cable** to configure a MAX-AVP, but not to view content played on the AVP.
- To view content played on the AVP, connect the AVP to an actual HDMI display device. Refer to the MAX-AVP documentation for instructions on using the AVP to playback media.
- If playback of copyrighted content is attempted (via the conversion cable), the AVP may need to be rebooted to re-initialize the HDMI signal.

Technical Explanation

HDCP ("High-Bandwidth Digital Content Protection") is a form of digital rights management designed to control digital A/V content as it travels across DVI or HDMI connections.

Standard HDMI (High-Bandwidth Digital Content Protection) specifications require that the target display device for an HDMI signal must provide HDCP protocol for copyrighted content. If the connected display device does not provide valid HDCP handshaking, the HDMI signal will not be displayed. Typically, HDMI-capable video monitors provide HDCP protocol, but most computer monitors do not. This is the case with the LCD monitor included with the MDL200 kit.

Changing the DVD Region Code Setting

Overview

All DVD players and most DVD discs are labeled for operation within a specific geographical region in the world. This is know as a *Region Code*.

DVD discs are encoded for a specific region, and must match the region code of the physical DVD drive to be played. Region code recognition only applies to the physical DVD disc and the physical DVD-ROM drive. For example, the U.S. is in Region 1. This means that all DVD players sold in the U.S. are made to Region 1 specifications. As a result, Region 1 players can only play Region 1 DVD coded discs.

- Regional codes are entirely optional for the maker of a DVD disc. Discs without region locks will play on any DVD player in any country.
- DVD discs may have multi-region codes, such as Region 1,2 and 4 and will play in drives coded with the corresponding region code. On the back of each DVD package, you will a find a region number (1 - 6).
- On a MAX system, if a DVD disc is inserted into a DVD-ROM drive that has a region code different from that of the DVD, you will receive an error message indicating that there is no disc in the drive when you attempt to identify the disc (via the Identify *Disc* option in the WinMAX software application.

Use the **Region Control** options on the *Setup Page - Locale tab* to change the DVD region code setting on the MAX-AVP:

1. Highlight **DVD Region** and press SELECT to scroll through the different region codes (displayed in the text field) until you see the region that you want to set the AVP to.
2. Highlight and select **Set Region**. The system prompts you to verify this action, and reminds you of the number of region code changes still allowed (FIG. 1):

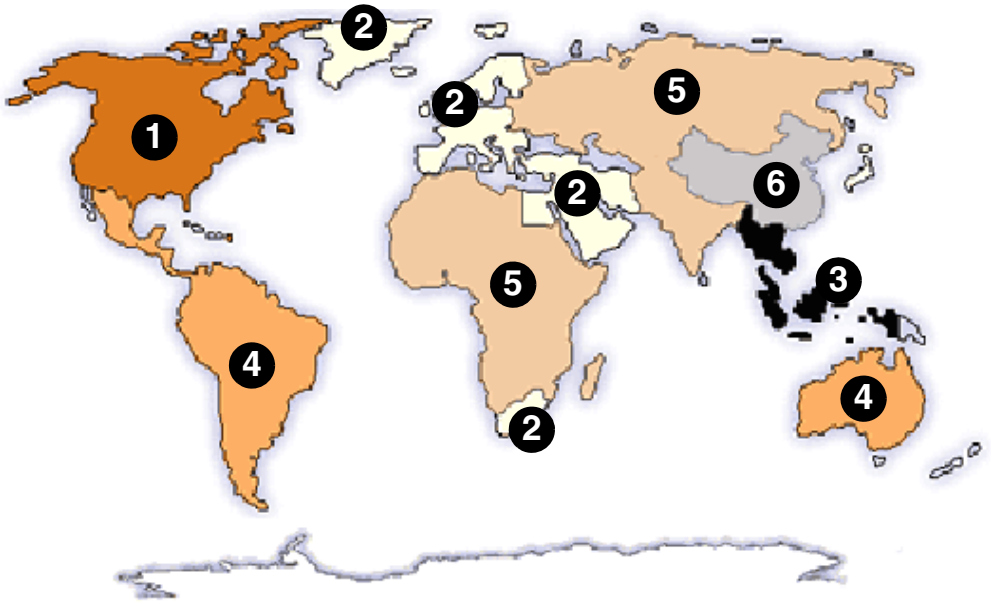
FIG. 1 Changing DVD Region Code Settings dialog

3. Highlight and select **Accept** to change the region code, or Cancel to return to the Setup Page – Locale tab without changing the region code.

DVD Regions (1-6)

The following table lists the six international DVD Region Codes used by all DVD-ROMs:

• REGION 1:	USA, Canada
• REGION 2:	Japan, Europe, South Africa, Middle East, Greenland
• REGION 3:	S.Korea, Taiwan, Hong Kong, Parts of South East Asia
• REGION 4:	Australia, New Zealand, Latin America (including Mexico)
• REGION 5:	Eastern Europe, Russia, India, Africa
• REGION 6:	China



Default Region Code Setting

By default, all MAX DVD-ROM drives are set to read DVDs with **Region 1** encoding (for U.S., Canada and U.S. Territories). Depending on what region of the world you are installing and operating the MAX-AVM, you may need to change the region code setting in order to read DVDs from other regions.

Each DVD-ROM drive adheres to the (CCA licensing organization) requirement that the drive must be set to a region specific code to play authorized DVDs for that region. The requirement allows for the DVD-ROM region code to be changed a maximum of five (5) times in a drive. The fifth time, the region code is "locked" permanently in the drive. This procedure is mandated for all DVD-ROM manufactures that carry the DVD logo and applies to all DVD-ROM drives used throughout the MAX system.

WARNING

Since the AVP is set to Region 1 as the default factory setting, there are 4 additional changes allowed. (for a total of five allowed).

NOTE

Refer to the Setup Page section on page 46 *for detailed descriptions of all of the options available via the MAX-AVP Setup Page.*

MAX-AVP Remote Controller

Overview

The buttons on the MAX-AVP hand-held IR remote controller (FIG. 1) are described below:

MAX-AVP Remote Controller **(FG 2178-52)**

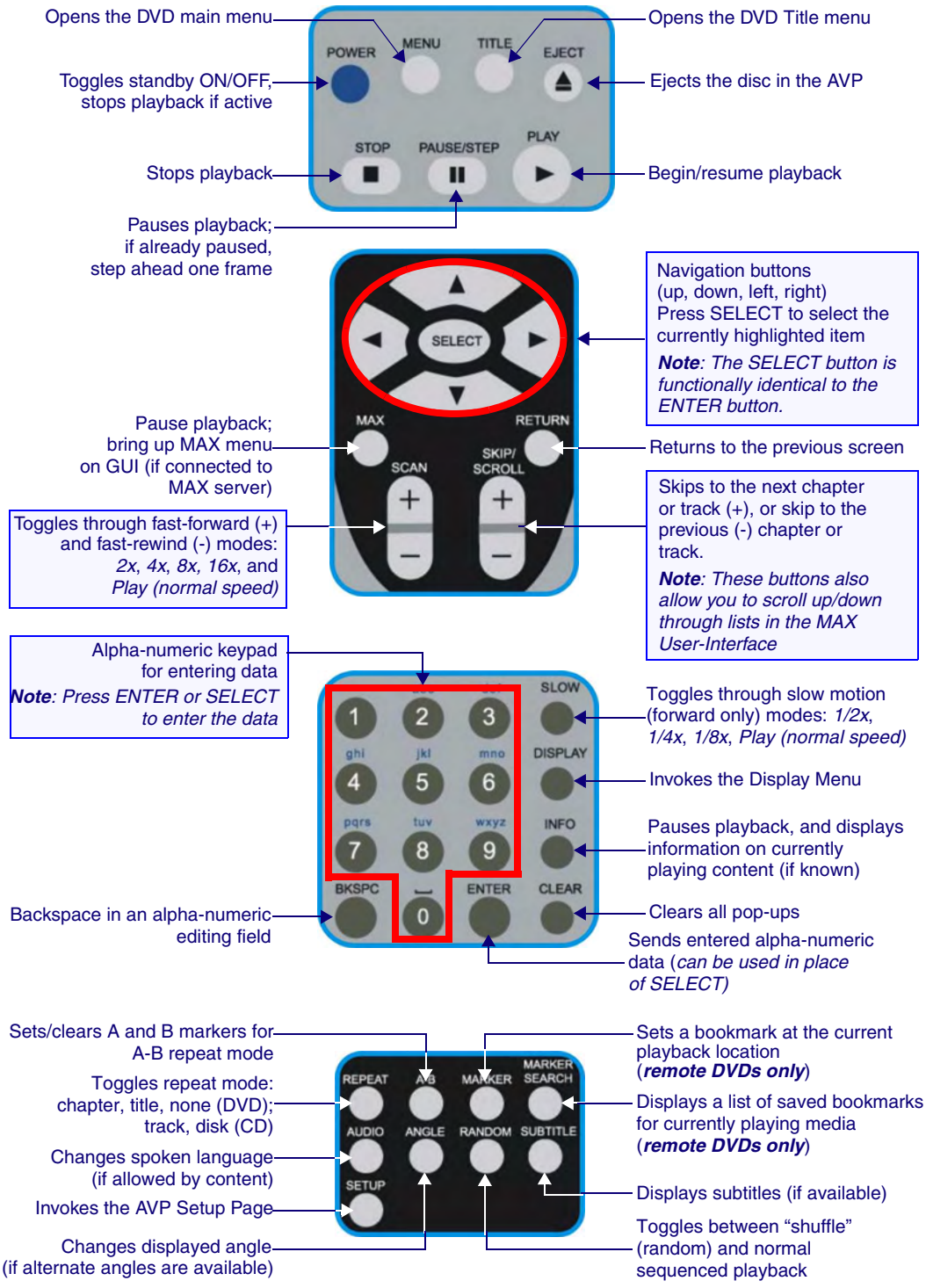


FIG. 1 MAX-AVP Remote Controller

MAX-AVP Remote IR Codes

MAX-AVP Remote IR Codes		
Remote Key	**Playback Function**	**GUI Function**
POWER	Toggle standby on/off (stops playback if active). Refer to the *Standby Mode* section on page 10 for details.	Toggle standby on/off
MENU	DVD Menu call	N/A
TITLE	DVD Title (Top) menu call	N/A
EJECT	Eject the local disk	Eject the local disk
STOP	Stop playback	Clear Placeholder
PAUSE/STEP	Pause playback; if already paused: step ahead one frame	N/A
PLAY	Begin playing local disk; resume from trick modes (4 steps fast forward (2x, 4x, 8x, 16x), 5 steps rewind (1x, 2x, 4x, 8x, 16x), slow motion, Pause)	Select currently highlighted button
UP	Determined by content menus	Move active GUI selection up.
DOWN	Determined by content menus	Move active GUI selection down.
LEFT	Determined by content menus	Move active GUI selection left.
RIGHT	Determined by content menus	Move active GUI selection right.
SELECT	Determined by content menus	Select currently highlighted button
MAX	Pause playback; bring up MAX menu on GUI (if connected to MAX server). Refer to the *Accessing Media Stored on the MAX Server* section on page 27 for details.	Bring up / take down MAX menu on GUI (if connected to MAX server)
RETURN	DVD Return function – action depends on content	Return to previous menu screen
SCAN+	Toggle through fast-forward modes: 2x, 4x, 8x, 16x, Play (normal speed)	N/A
SCAN-	Toggle through fast-rewind modes: 2x, 4x, 8x, 16x, Play (normal speed)	N/A
SKIP/SCROLL+	Skip to next segment of program chain (chapter, track for a CD, etc.)	Scroll up a list in the GUI.
SKIP/SCROLL-	Skip to previous segment of program chain (chapter, track for a CD, etc.)	Scroll down a list in the GUI.
1	Input numerical data to decoder (must hit ENTER or SELECT to input number) – action depends on content.	Input alpha-numerical data to a dialog.
2abc	Input numerical data to decoder (must hit ENTER or SELECT to input number) – action depends on content.	Input alpha-numerical data to a dialog.
3def	Input numerical data to decoder (must hit ENTER or SELECT to input number) – action depends on content.	Input alpha-numerical data to a dialog.
4ghi	Input numerical data to decoder (must hit ENTER or SELECT to input number) – action depends on content.	Input alpha-numerical data to a dialog.
5jkl	Input numerical data to decoder (must hit ENTER or SELECT to input number) – action depends on content.	Input alpha-numerical data to a dialog.

MAX-AVP Remote IR Codes (Cont.)		
Remote Key	**Playback Function**	**GUI Function**
6mno	Input numerical data to decoder (must hit ENTER or SELECT to input number) – action depends on content.	Input alpha-numerical data to a dialog.
7pqrs	Input numerical data to decoder (must hit ENTER or SELECT to input number) – action depends on content.	Input alpha-numerical data to a dialog.
8tuv	Input numerical data to decoder (must hit ENTER or SELECT to input number) – action depends on content.	Input alpha-numerical data to a dialog.
9wxyz	Input numerical data to decoder (must hit ENTER or SELECT to input number) – action depends on content.	Input alpha-numerical data to a dialog.
0 / SPACE	Input numerical data to decoder (must hit ENTER or SELECT to input number) – action depends on content.	Input alpha-numerical data to a dialog.
BKSPC	N/A	Backspace in an alpha-numeric editing field.
ENTER	Send entered numeric data; optional – can be used in place of SELECT.	Enter alpha-numeric data. (Optional: can use SELECT key)
SLOW	Toggle through slow motion (forward only) modes: 1/2x, 1/4x, 1/8x, Play (normal speed)	N/A
DISPLAY	Bring up display menu (informational menu for current content)	N/A
INFO	Pause playback and bring up information on currently playing content, if known.	N/A
CLEAR	Remove all popups from screen.	Remove all popups from screen and return to known navigation state.
REPEAT	Toggle repeat mode: chapter, title, none (DVD); track, disk (CD).	N/A
A-B	Set / clear A and B markers for A-B repeat mode.	N/A
MARKER	Set a bookmark at the current playback location. Refer to the *Working With Bookmarks* section on page 33 for details.	N/A
MARKER SEARCH	Display a list of saved bookmarks for currently playing media. *Refer to the Working With Bookmarks* section on page 33 *for details.*	N/A
AUDIO	Change spoken language (if allowed by content).	N/A
ANGLE	Change displayed angle (if allowed by content)	N/A
RANDOM	Toggle between “shuffle” (random) track/chapter/playlist-element selection and normal sequenced playback	Same as for playback.
SUBTITLE	Change displayed subpicture stream (primary use is subtitles) (if allowed by content).	N/A
SETUP	Call & bring up SETUP GUI screens. Refer to the *Setup Page* section on page 46 for details.	Call & bring up SETUP GUI screens.

Extra IR Codes

These IR codes are provided for convenience for use by other AMX controls. They do not exist on the remote itself:

IR Function	Playback Function	GUI Function
Discrete Power ON	Take out of standby mode	Take out of standby mode
Discrete Power OFF	Put into standby mode	Put into standby mode

MAX-AVP User Interface

Overview

When the AVP is first powered up, via the power switch on the rear panel, the first screen displayed is the MAX-AVP Startup screen. Allow the AVP a minute to boot up and load its system software.

Once the AVP is ready to use, the main splash screen (FIG. 1) is displayed. At this point, you can either insert a CD or DVD for playback, or access content stored on the MAX Server.

FIG. 1 MAX-AVP Splash Screen

NOTE

*If a disc is loaded in the AVP, the Splash Screen displays the message: "**Disc Loaded and Ready**" (as opposed to the "No disc present" message shown above).*

Playing Local Content (CDs and DVDs)

NOTE

"Local Content" is media (CD or DVD) that is physically loaded in the AVP, as opposed to MAX server content, which can be accessed via the AVP, but resides on the MAX Server. Refer to the Accessing Media Stored on the MAX Server section on page 27 *for details on options that are specific to MAX Server content.*

When the AVP is used to play local content (a DVD or CD in its own drive), it behaves like most consumer-level disc players. Use the hand-held remote controller to control display and playback

- When used to access media on a MAX Server, use the remote controller to navigate the MAX options via the on-screen display.
- Local content playback overrides playback of MAX Server content. If you are playing media (CD or DVD) from a MAX Server, and insert a disc into the AVP, the server-based content will be interrupted, and the local content will automatically begin to play.

Inserting a DVD or CD

Insert the disc, label-side up, in to the loading slot on the front of the AVP. When the disc is almost fully inserted, the player pulls it into the drive and automatically starts playback.

- For CDs, the first track is played
- For DVDs the disc menu is displayed

NOTE

Discs must be clean and without any labels or debris that could come off during playback.

Playback of a Local CD

For local audio CD playback, the AVP's on-screen display indicates the track number currently playing. Use the transport controls on the remote controller to Play, Stop and Pause playback (press Play to resume).

NOTE

Several options on the remote controller are specific for accessing and playing CDs stored on a MAX Server, and do not apply to local CD playback, including: MAX, RETURN and INFO. Other options are specific to DVD playback, and do not apply to CD playback at all, including MENU, TITLE, SLOW, A-B, MARKER, MARKER SEARCH, AUDIO, ANGLE and SUBTITLE.

Skipping Tracks

Press the **SKIP/SCROLL (+ / -)** buttons to skip forward and back through the tracks on the CD.

NOTE

The SKIP/SCROLL (+ / -) buttons also allow you to page through large lists (such as on the Browse or Playlist pages), as opposed to scrolling through each item in the list.

Scanning Within Tracks

Press the Scan (+ / -) buttons to scan forward and back (cue/rewind) through the current track.

- When scanning a track, the on-screen display indicates the total time of the disc and the current playback position for the current track.
- Press the **Scan** (+ / -) button one time to scan at 2X speed, press again to increase the scan speed (2X, 4X, 8X or 12X).
- Press **Play** to resume playback at the current position (indicated in the Status Bar).

Repeating Individual Tracks or the Entire CD

Press the REPEAT button to toggle through the three Repeat options that can be used with CDs. The current Repeat Play setting is indicated by an icon in the upper-right corner of the screen (FIG. 2):

FIG. 2 Repeat Track, Repeat Disc and No repeat icons

- Press **REPEAT** one time to repeat the current track, as indicated by the icon.
- Press **REPEAT** again to repeat the entire CD.
- Press **REPEAT** again to return to normal playback (No Repeat).

Random Play

Press the **RANDOM** button to play the tracks on this CD in random order. The current Random Play setting is indicated by an icon in the upper-right corner of the screen (FIG. 3):

FIG. 3 Random Play and Normal Play icons

- Press **RANDOM** one time to initiate randomized playback, as indicated by the icon.
- Press **RANDOM** again to return to normal (sorted) playback.

CD Playback Display Screen

Press the **DISPLAY** button while playing a CD to toggle the CD Playback Screen (FIG. 4).

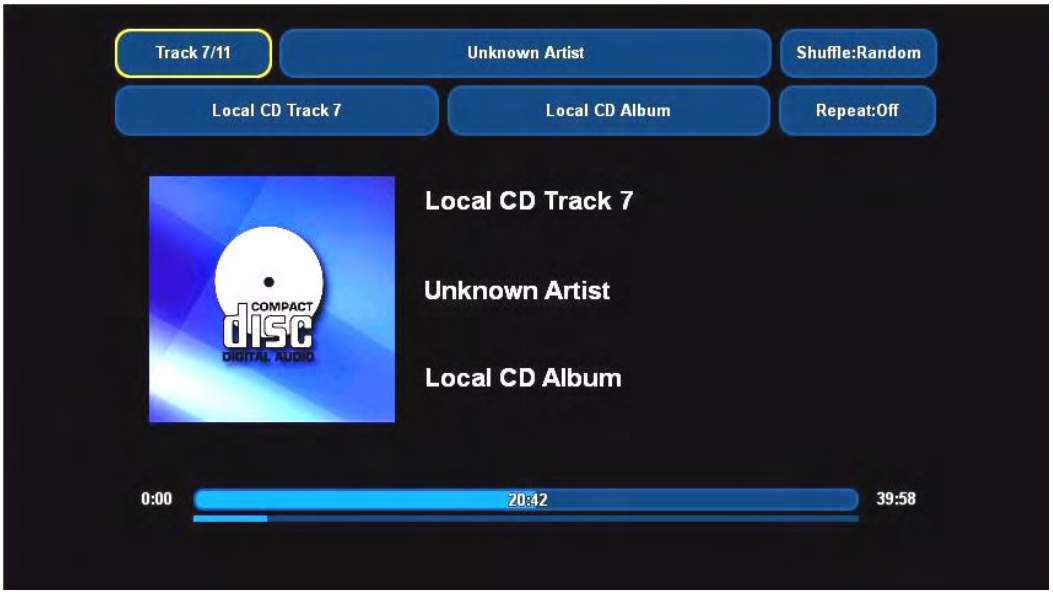


FIG. 4 CD Playback Screen

The elements on this page include:

- **Track Listing:** Indicates the track that is currently playing. Highlight and select this item to enter a track number for playback (via the number buttons on the remote controller).
- **Artist**: Indicates the Artist name associated with this CD.
- **Shuffle**: Indicates the current playback setting (*Random* or *Sorted*).
- **Local CD Album**: Indicates that the currently playing CD is Local.
- **Repeat setting**: Indicates the current repeat playback setting (*On* or *Off*).
- **Playback Status Bars**: Top bar indicates playback of the entire CD, the lower bar indicates playback of the current track. The total playback time for this disc is displayed to the right of the Status Bar.

Playback of a Local DVD

For DVD playback, the AVP's on-screen display shows the DVD disc menu.

- Use the transport controls on the remote controller to Play, Stop and Pause playback; and use the Arrow buttons to navigate through the options on the DVD Menu. Note that you can initiate playback either via the options on the DVD Menu or by pressing **PLAY** on the remote controller.
- When you stop playback, the AVP saves your place in the movie, so that when you press Play again, it starts playing at the point that it was stopped. To clear the placeholder, so that the movie will resume play from the beginning, press **STOP** again.

Several options on the remote controller are specific to accessing and playing DVDs stored on a MAX Server, and do not apply to local DVD playback, including: MAX, RETURN, MARKER, MARKER SEARCH and INFO.

Pause/Step

- Press **PAUSE** one time to pause playback, press PLAY to resume.
- With playback paused, press **PAUSE** again to manually step frame-by-frame through the movie (press **PLAY** to resume normal playback).

Accessing the DVD Menu

At any time during playback, press the **MENU** button to stop playback and access the DVD's menu screen.

Note that if you go to the DVD Menu screen during playback, the AVP saves a placeholder, so that when you resume playback, it automatically starts playing the movie at the point that it was stopped. If you press **STOP**, the placeholder is removed. Once the placeholder has been removed, the next time the movie is started it will start at the beginning.

Skipping Chapters

Press the **SKIP/SCROLL (+ / -)** buttons to skip forward and back through the chapters on the DVD.

The SKIP/SCROLL (+ / -) buttons also allow you to page through large lists (such as on the Browse or Playlist pages), as opposed to scrolling through each item in the list.

Scanning Within Chapters

Press the Scan (+ / -) buttons to scan forward and back (cue/rewind) through the current chapter.

- When scanning a chapter, the on-screen display indicates the total time of the disc and the current playback position for the current chapter.
- Press the **Scan** (+ / -) button one time to scan at 2X speed, press again to increase the scan speed (2X, 4X, 8X or 16X).
- Press **Play** to resume playback at the current position (indicated in the Status Bar).

Slow Motion Playback:

- Press the **SLOW** button during playback to play the movie in slow-motion (1/2X speed), press again to decrease the playback speed (1/2X, 1/4X or 1/8X).
- Press **Play** to resume normal playback.

Repeating Individual Chapters or the Entire Movie

Press the **REPEAT** button to toggle through the three Repeat options that can be used with DVDs. The current Repeat setting is indicated by an icon in the upper-right corner of the screen (FIG. 5):

FIG. 5 Repeat DVD Chapter, Title, and No Repeat icons

- Press **REPEAT** one time to repeat the current chapter, as indicated by the icon.
- Press **REPEAT** again to repeat the entire movie.
- Press **REPEAT** again to return to normal playback (no repeat).

Creating a Looped Segment (Repeat A-B)

Repeat A-B allows you to loop (repeat) a segment of the movie:

1. During playback, press **A-B** at the point that you want to start the loop. Note the on-screen display indicates the starting point with the letter **A** (FIG. 6):

FIG. 6 Looped segment - Start Point, End Point and Normal Play (no loop) icons

2. At the point that you want to end the looped segment, press **A-B** again. The on-screen display indicates the end of the loop with the letters **A-B**.

This causes the segment of the movie between the A and B points to begin playing in an infinite loop. To resume normal playback, press **A-B** a third time. The on-screen display indicates that you have stopped looped playback.

DVD Audio Settings

Press the **AUDIO** button to scroll through the audio options supported by the current DVD. Typically, this option allows you to select from multiple languages, but this function varies depending on the nature of the DVD playing. Press **AUDIO** repeatedly to scroll through any additional audio options supported by the DVD.

You can see the different Audio options as you scroll through them on the Display screen (press **DISPLAY**, then press **AUDIO** repeatedly to view each available audio option (FIG. 7):

FIG. 7 DVD Audio Options

Multiple/Alternate Angles

Some DVDs support multiple alternate angle views. This feature is often supported on concert performance DVDs. When watching a DVD that has alternate angles available, the **ANGLE** button allows you to select alternate angle views.

Subtitles

Most DVDs support subtitles in at least one language, and many feature multiple language subtitles. Press the **SUBTITLE** button one time to turn on subtitles (in their default language). Press **SUBTITLE** repeatedly to scroll through any additional language options supported by the DVD.

You can see the different Subtitles options as you scroll through them on the Display screen (press **DISPLAY**, then press **SUBTITLE** repeatedly to view each available subtitle option (FIG. 8) :

FIG. 8 DVD Subtitle Language Options

The No Function Symbol

DVD functions such as alternate angles, subtitles and audio options are not necessarily supported by all DVDs. If a selected function is not supported by the current DVD, the *No Function* symbol (FIG. 9) is displayed.

FIG. 9 No Function symbol

Movie Playback Display Screen

Press the **DISPLAY** button while playing a DVD to toggle the Movie Playback Screen (FIG. 10).

FIG. 10 Movie Playback Screen

The elements on this page indicate all of the current DVD playback settings:

- **Chapter Listing**: Indicates the chapter that is currently playing. Highlight and select this item to enter a chapter number for playback (via the number buttons on the remote controller).
- **Title Listing**: Indicates the title that is currently playing. Highlight and select this item to enter a title number for playback (also via the number buttons on the remote controller).

- **Subtitle Setting**: Indicates the current subtitle setting. Highlight and select this item to scroll through the supported subtitle settings for this disc.
- **Audio Setting**: Indicates the current audio setting. Highlight and select this item to scroll through the supported audio settings for this disc.
- **Angle Setting**: Indicates the current angle setting. Highlight and select this item to scroll through the supported angle selections for this disc.
- **Disc Information**: Displays title, chapter and media information for the current disc.
- **Media Information**: Displays the type of media currently playing.
- **Repeat Settings**: Indicates the current repeat playback setting. Highlight and select this item to scroll through the repeat options for this disc.
- **Playback Status Bars**: The top bar indicates playback of the entire DVD, the lower bar indicates playback of the current track. The total playback time for this disc is displayed to the right of the Status Bar.

Accessing Media Stored on the MAX Server

Press the MAX button on the remote controller to access the main MAX screen.

MAX Server – Main Page

The three options displayed here represent the three main areas of media search/playback oriented functionality (FIG. 11):

FIG. 11 Main Page Options

- **Movie**: Provides access to Movie (DVD)-related options
- **Music**: Provides access to Music (CD)-related options
- **Playlist**: Provides access to Playlist-related options

Use the arrow buttons on the remote to highlight options on these screens, and press either **SELECT** or **ENTER** to select the highlighted item.

Press **RETURN** to go back to the previous set of options.

MAX Server Pages – Movie Options

Highlight **Movie** on the main screen to access the following options for accessing DVD content on the MAX server (FIG. 12):

FIG. 12 Main Page - Movie Options

- **Title**: This option allows you to browse all DVDs on the MAX server, by movie title. See the *Browse For Movies* section on page 28 for details.
- **Genre**: This option allows you to browse for DVDs by genre. See the *Browse Movies by Genre* section on page 29 for details.
- **Cover**: This option allows you to browse DVDs by their cover art. See the *Browse Movies by Cover* section on page 30 for details.
- **Search**: This option allows you to search for DVDs by Title, Actor, Director or Keyword. *Search For Movies* section on page 31 for details.

Browse For Movies

1. Press **MAX** to access the Main MAX Screen.
2. Highlight and select *Movies*, then select *Browse* to access the Movie Title Browse screen (FIG. 13), to browse the entire list of Movies currently on the MAX server. Each entry in the Browse list indicates the Title, Genre, MPAA (rating) and total running Time for each movie.
3. Scroll through the list to highlight the movie you want to play, and press **SELECT** to select the title, and open the Movie Details screen for that movie.
   - You can sort the list by Title, Genre, MPAA (rating) or Time by highlighting and selecting any one of the column headings.
   - Use the **SKIP/SCROLL (+ / -)** buttons to page through large lists as opposed to scrolling through each item in the list.

   The Movie Details screen displays detailed information on the movie.
4. When the Movie Details screen opens, select the *Play Movie* button (see *Movie Details Page* section on page 33), and press **SELECT** to begin playback.

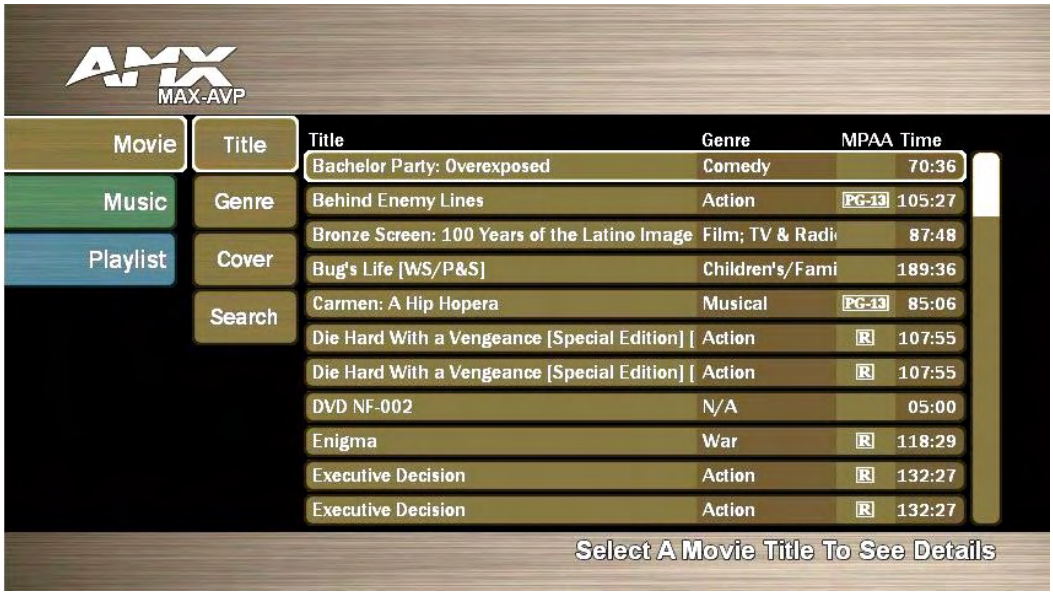


FIG. 13 Movie Title Browse screen

NOTE

SELECT, ENTER or PLAY often share the same functionality. For example, with Play selected on-screen, you would get the same results if you pressed either SELECT, ENTER or PLAY on the remote controller.

Browse Movies by Genre

1. Press **MAX** to access the Main MAX Screen.
2. Highlight and select *Movies*, then select *Genre* to access the Movie Genre Select screen (FIG. 14), to browse a list of all movie Genres currently on the MAX server. Each entry in the Genre list indicates the *Genre Name*, the number of *Discs* included in each, and the total running time for each Genre (if all movies in the Genre were played in sequence).

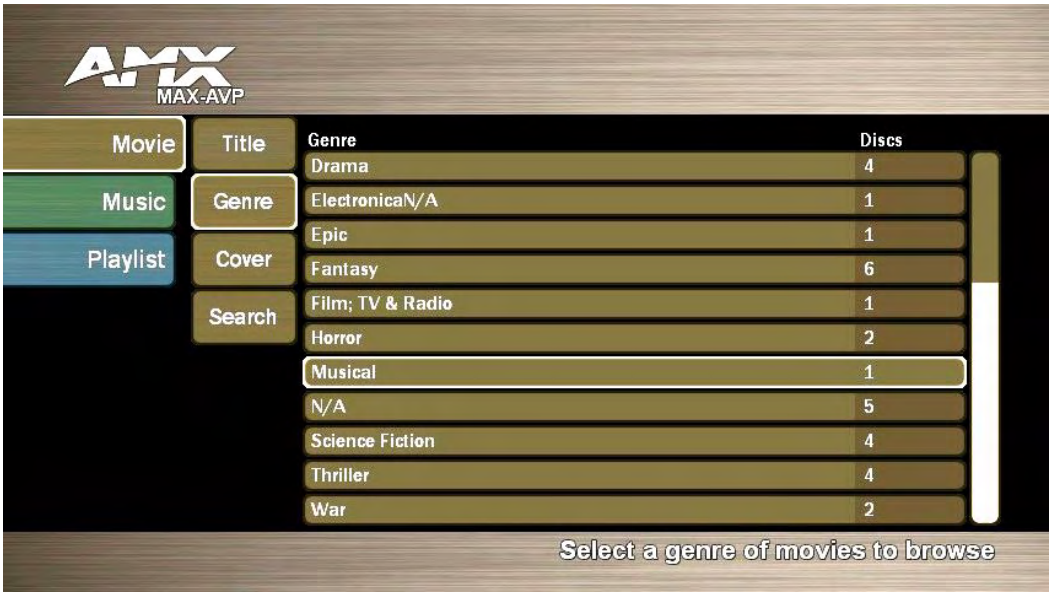


FIG. 14 Movie Genre Select screen

3. Scroll through the list to highlight a genre you want to browse, and press **SELECT** to select the highlighted genre. This selection invokes the Movie Title Browse screen (FIG. 13), listing all movies included in the selected genre.
   - You can sort the list by Genre, Discs or Time by highlighting and selecting any one of the column headings.
   - Use the **SKIP/SCROLL (+ / -)** buttons to page through large lists (as opposed to scrolling through each item in the list individually).
4. Scroll through the list to highlight the movie you want to play, and press **SELECT** to select the title, and open the Movie Details screen for that movie.
5. When the Movie Details screen opens, select the *Play Movie* button (see *Movie Details Page* section on page 33), and press **SELECT** to begin playback.

Browse Movies by Cover

1. Press **MAX** to access the Main MAX Screen.
2. Highlight and select *Movies*, then select *Cover* to access the Movie Genre Select screen (FIG. 14 on page 29), to browse a list of movie Genres currently on the MAX server.
3. Scroll through the Genre list to highlight a genre you want to browse by cover art, and press **SELECT** to make the selection. This selection invokes the Movie Cover Art Browse screen (FIG. 15 on page 30), showing cover art for all movies included in the selected genre.

FIG. 15 Movie Cover Art Browse screen

4. Scroll through the list to highlight the movie you want to play, and press **SELECT** to select the title, and open the Movie Details screen for that movie.

   The Movie Details screen displays detailed information on the movie. The options on the Movie Details screen are described on page 33.
5. When the Movie Details screen opens, select the *Play Movie* button (see *Movie Details Page* section on page 33), and press **SELECT** to begin playback.

Search For Movies

1. Press **MAX** to access the Main MAX Screen.
2. Highlight and select *Movies*, then select *Search* to access the Movie Search screen (FIG. 16).

FIG. 16 Movie Search screen

The buttons along the top of this screen indicate the different types of searches that you can do:

- **Title**: This searches the DVD titles for a partial match.
- **Actor**: Searches the Actors portion of the movie details for a partial match.
- **Director**: Searches the Director portion of the movie details for a partial match.
- **Keyword**: Searches the Keywords portion of the movie details for a partial match.

Note that search operations depend on the detailed information that was entered for each disc (either via WinMAX or BulkRipper). If a DVD was added to the MAX server with incomplete movie details, then it might not be found via certain search types. For example, a DVD that does not have a Director's name included as part of the detailed movie information, naturally it will not found in a Director-based search.

3. Highlight and select the desired search type, and press **SELECT** to invoke the text entry field (FIG. 17):

FIG. 17 Text Entry Field

4. Use the alpha-numeric keypad on the remote controller to enter a search string, and press **ENTER** to search.
   - The keypad on the remote controller works like most cell-phone keypads: Press the button once to type the first letter of that button ("A" on the "ABC" / #2 button). Press the button again to type the next letter for that button ("B"), and so on.
   - Watch the text entry field as you enter letters to verify that you are entering the characters correctly.
   - When entering more than one letter that is assigned to the same button on the remote controller, wait until the cursor moves to the next position to enter the letters (approximately 3 seconds): the selected letter is always added to the search field at the cursors position.
5. Scroll through the search results list to highlight the movie you want to play, and press **SELECT** to select the title, and open the Movie Details screen for that movie.
   - You can sort the list by Title, Actor, Director or Keyword by highlighting and selecting any one of the column headings.
   - Use the **SKIP/SCROLL (+ / -)** buttons to page through large lists as opposed to scrolling through each item in the list.

   The Movie Details screen displays detailed information on the movie. The options on the Movie Details screen are described on page 33.
6. When the Movie Details screen opens, select the *Play Movie* button (see *Movie Details Page* section on page 33), and press **SELECT** to begin playback.

Movie Details Page

When you select a movie title in the Browse, Genre, Cover or Search Movies pages, the Movie Details page is displayed, providing detailed information on the movie, as well as cover art (FIG. 18).

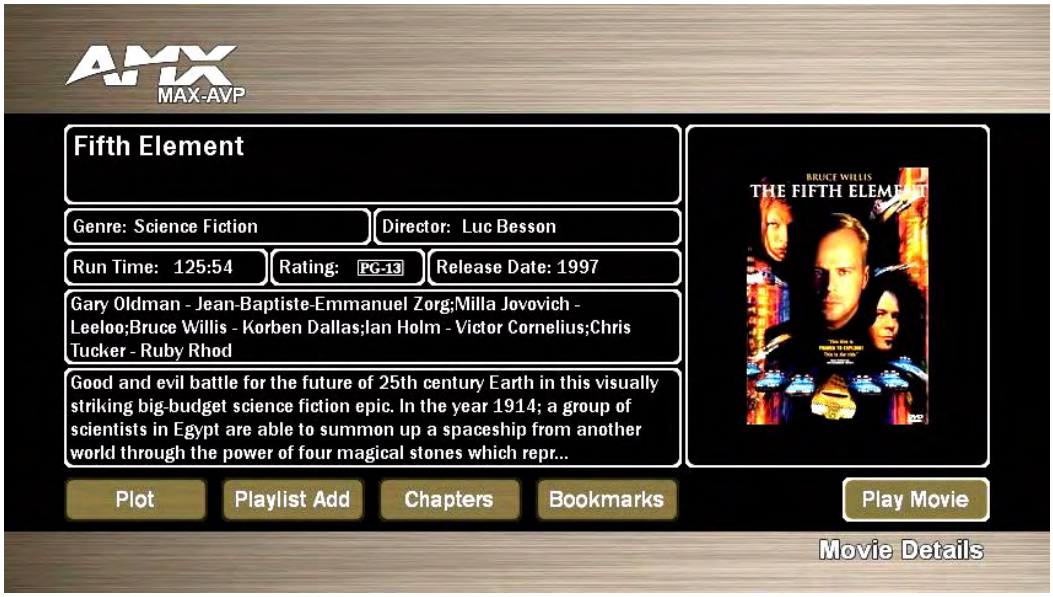


FIG. 18 Movie Details page

There are several options along the bottom of the page:

- **Plot**: Select to display a synopsis of the movie's plot.
- **Playlist Add**: Select to add individual chapters from the DVD, or the entire movie to a Playlist. Refer to the *Working With Playlists* section on page 41 for details.
- **Chapters**: Select this option to select an individual chapter for playback, in the Movie Details - Chapters page.
- **Bookmarks**: Select this option to view and select from a listing of all Bookmarks saved for this movie. Refer to the *Working With Bookmarks* section on page 33 for details.

To exit the Movie Details page, press **RETURN** on the remote control.

Working With Bookmarks

Use Bookmarks to mark specific points of interest within individual chapters on a DVD. Once you have saved one or more bookmarks for a movie, you can later choose to begin playback from any saved bookmark.

- Bookmarks are only available for DVDs on the MAX server (not applicable to DVDs played locally on the AVP).
- Use the **MARKER** button on the remote controller to create bookmarks, and the **MARKER SEARCH** button allows you to select a particular bookmark to begin playback from, as described in the following sections:
- Bookmarks are created during playback.

Creating Bookmarks

1. While a DVD is playing, press the **MARKER** button on the remote controller to place a bookmark at the point in the movie that you want to bookmark. This action pauses the movie and invokes the Create Bookmark dialog, indicating the movie, Chapter (#), media type (DVD_VIDEO), and the time stamp of its position in the movie (FIG. 19):

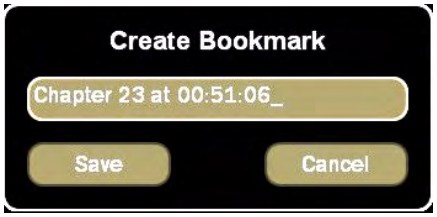


FIG. 19 Create Bookmark dialog

2. Highlight **Save**, and press **SELECT** or **ENTER** to save this bookmark.

Recalling Bookmarks

There are two ways to recall bookmarks, via the Bookmarks page (FIG. 20):

FIG. 20 Movie Details - Bookmarks page

- During playback of a movie that has bookmarks saved, press **MARKER SEARCH** to access the Bookmarks list for this movie.
- In the Movie Details page for any movie that has bookmarks saved, highlight and select *Bookmarks* to access the Bookmarks list for that movie.

1. Once you have accessed the Bookmarks list, scroll through the list and highlight the bookmark that you want to begin playback from.
2. Press **SELECT** to begin playback at the bookmarked position.

Additional Notes Regarding DVD Content

Not all functions supported by the MAX-AVP are available or allowed by all DVD content. For example, even if a DVD shows 3 available languages, you may not be able to change the language using the AUDIO button on the AVP's no-screen display. When such a feature is non-selectable, it can usually be set via the DVD's menu (accessed via the MENU button or TITLE button on the remote controller).

NOTE

DVD functions such as alternate angles, subtitles and audio options are not necessarily supported by all DVDs. If a selected function is not supported by the current DVD, the No Function symbol (FIG. 12) is displayed.

DVD Aspect Ratios

Some older DVDs (first and second generation discs) may be in a Widescreen aspect ratio, but not "*Anamorphic*" or "*Enhanced For Widescreen TVs*". In these cases, the title will not display properly on a 16:9 display, since it is a widescreen movie "matted" in a 4:3 signal.

Most 16:9 displays offer a "Zoom" mode that can be used to make the movie properly fill the screen, though this will make the DISPLAY popups unusable, since they will be off-screen. The AVP may need to be set to 4:3 (via WinMAX) to allow the TV to zoom properly for this type of content.

MAX Server Pages – Music Options

Highlight *Music* on the main screen to access the following options for accessing audio/CD content on the MAX server (FIG. 21):

FIG. 21 Main Page - Music Options

- **Title**: This option allows you to browse all CDs on the MAX server, by CD title. See the *Browse For Music* section on page 36 for details.
- **Genre**: This option allows you to browse for CDs by genre. See the *Browse Music by Genre* section on page 37 for details.
- **Cover**: This option allows you to browse CDs by their cover art. See the *Browse Music by Cover* section on page 38 for details.

- **Artist**: This option allows you to browse CDs by artist name. See the *Browse Music by Artist* section on page 38 for details.
- **Search**: This option allows you to search for CDs by Title or Artist. See the *Search For Music* section on page 39 for details.

Browse For Music

1. Press **MAX** to access the Main MAX Screen.
2. Highlight and select *Music*, then select *Browse* to access the Music Album Title Browse screen (FIG. 22), to browse the entire list of CDs currently on the MAX server. Each entry in the Browse list indicates the Album (title), Genre, and Artist for each CD.

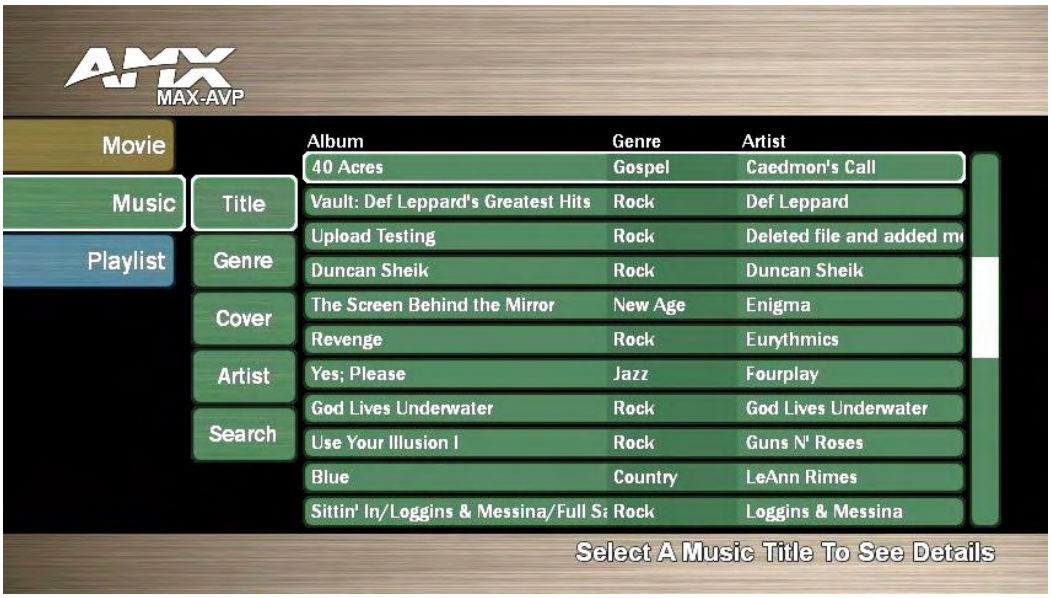


FIG. 22 Music Album Title Browse screen

3. Scroll through the list to highlight the CD that you want to play, and press **SELECT** to select the title, and open the Music Details screen for that CD.
   - You can sort the list by Album, Genre, or Artist by highlighting and selecting any one of the column headings.
   - Use the **SKIP/SCROLL (+ / -)** buttons to page through large lists as opposed to scrolling through each item in the list.

   The Music Details screen displays detailed information on the movie. The options on the Music Details screen are described in the *Music Details Page* section on page 40.
4. When the Music Details screen opens, select the *Play* button (see *Music Details Page* section on page 40), and press **SELECT** to begin playback.

NOTE

SELECT, ENTER or PLAY often share the same functionality. For example, with Play selected on-screen, you would get the same results if you pressed either SELECT, ENTER or PLAY on the remote controller.

Browse Music by Genre

1. Press **MAX** to access the Main MAX Screen.
2. Highlight and select *Music*, then select *Genre* to access the Music Genre Select screen (FIG. 23), to browse a list of all music Genres currently on the MAX server. Each entry in the Genre list indicates the *Genre Name*, the number of *Discs* included in each, and the total running time for each Genre (if all CDs in the Genre were played in sequence).

FIG. 23 Music Genre Select screen

3. Scroll through the list to highlight a genre you want to browse, and press **SELECT** to select the highlighted genre. This selection invokes the Music Album Title Browse screen (FIG. 22 on page 36), listing all movies included in the selected genre.
   - You can sort the list by Genre, Tracks, or Time by highlighting and selecting any one of the column headings.
   - Use the **SKIP/SCROLL (+ / -)** buttons to page through large lists as opposed to scrolling through each item in the list.
4. Scroll through the list to highlight the CD that you want to play, and press **SELECT** to select the title, and open the Music Details screen for that CD.

   The Music Details screen displays detailed information on the CD. The options on the Music Details screen are described in the *Music Details Page* section on page 40.
5. When the Music Details screen opens, select the *Play* button (see *Music Details Page* section on page 40), and press **SELECT** to begin playback.

Browse Music by Cover

1. Press **MAX** to access the Main MAX Screen.
2. Highlight and select *Music*, then select *Cover* to access the Music Genre Select screen (FIG. 23 on page 37), to browse a list of music Genres currently on the MAX server.
3. Scroll through the Genre list to highlight a genre you want to browse by cover art, and press **SELECT** to make the selection. This selection invokes the Music Cover Art Browse screen (FIG. 24), showing cover art for all CDs included in the selected genre.

FIG. 24 Music Cover Art Browse screen

4. Scroll through the list to highlight the CD you want to play, and press **SELECT** to select the title, and open the Music Details screen for that movie.

   The Music Details screen displays detailed information on the CD. The options on the Music Details screen are described in the *Music Details Page* section on page 40.
5. When the Music Details screen opens, select the *Play* button (see *Music Details Page* section on page 40), and press **SELECT** to begin playback.

Browse Music by Artist

1. Press **MAX** to access the Main MAX Screen.
2. Highlight and select *Music*, then select *Artist* to access the Music Artist Select screen (FIG. 25), to browse a list of all music Artists currently on the MAX server. Each entry in the Artist list indicates the *Artist Name*, the number of *Tracks* included in each, and the total running time for each Artist (if all tracks for that artist were played in sequence).
3. Scroll through the list to highlight an Artist that you want to browse, and press **SELECT** to select the highlighted Artist. This selection invokes the Music Album Title Browse screen (FIG. 22 on page 36), listing all CDs associated with the selected artist.
   - You can sort the list by Artist, Tracks, or Time by highlighting and selecting any one of the column headings.
   - Use the **SKIP/SCROLL (+ / -)** buttons to page through large lists as opposed to scrolling through each item in the list.

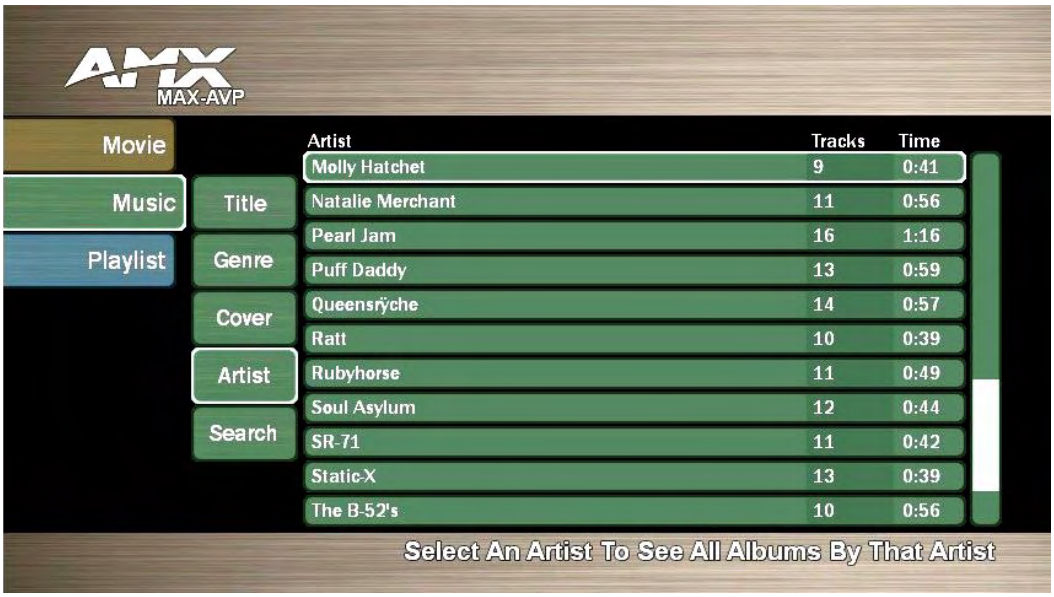


FIG. 25 Music Artist Select screen

4. Scroll through the list to highlight the CD that you want to play, and press **SELECT** to select the title, and open the Music Details screen for that CD.

   The Music Details screen displays detailed information on the CD. The options on the Music Details screen are described in the *Music Details Page* section on page 40.

5. When the Music Details screen opens, select the *Play* button (see *Music Details Page* section on page 40), and press **SELECT** to begin playback.

Search For Music

1. Press **MAX** to access the Main MAX Screen.
2. Highlight and select *Music*, then select *Search* to access the Music Search screen (FIG. 26).

FIG. 26 Music Search screen

The buttons along the top of this screen indicate the two types of searches that you can do:

- **Title**: This searches the CD titles for a partial match.
- **Artist**: Searches the Artists portion of the music details for a partial match.

NOTE

Search operations depend on the detailed information that was entered for each disc (either via WinMAX or BulkRipper). If a CD was added to the MAX server with incomplete details, then it might not be found via certain search types.

3. Highlight and select the desired search type, and press **SELECT** to invoke the text entry field.
4. Use the alpha-numeric keypad on the remote controller to enter a search string, and press **ENTER** to search.
   - The keypad on the remote controller works like most cell-phone keypads: Press the button once to type the first letter of that button ("A" on the "ABC" / #2 button). Press the button again to type the next letter for that button ("B"), and so on.
   - Watch the text entry field as you enter letters to verify that you are entering the characters correctly.
   - When entering more than one letter that is assigned to the same button on the remote controller, wait until the cursor moves to the next position to enter the letters (approximately 3 seconds): the selected letter is always added to the search field at the cursors position.
5. Scroll through the search results list to highlight the CD you want to play, and press **SELECT** to select the title, and open the Music Details screen for that CD.
6. The Music Details screen displays detailed information on the movie. The options on the Music Details screen are described in the *Music Details Page* section on page 40.
7. When the Music Details screen opens, select the *Play* button (see *Music Details Page* section on page 40), and press **SELECT** to begin playback.

Music Details Page

When you select a CD title in the Browse, Genre, Cover or Search Music pages, the Music Details page is displayed, providing detailed information on the CD, as well as cover art (FIG. 27).

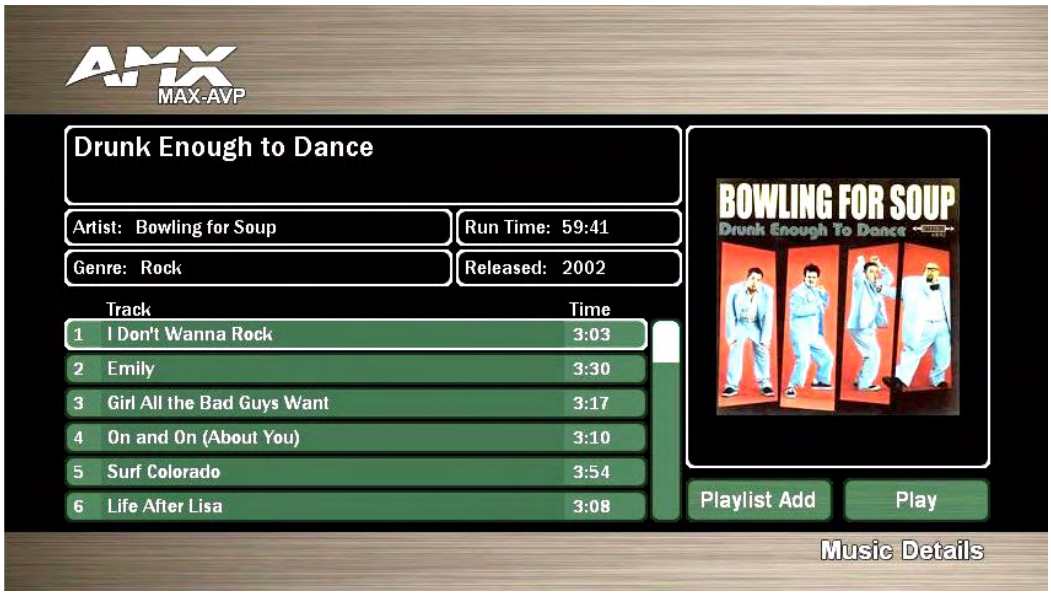


FIG. 27 Music Details page

There are two options on this page:

- **Playlist Add**: Select to add individual tracks from the CD, or the entire CD to a Playlist. Refer to the *Working With Playlists* section on page 41 for details.
- **Play**: Select to initiate playback of the entire CD.

NOTE

Alternatively, you can highlight an individual track in the Track list and press SELECT to begin playback of the CD, starting with the selected track.

To exit the Music Details page, press **RETURN** on the remote control.

Working With Playlists

Select *Playlist* from the Main MAX page to display the three types of Playlist types (*Audio, Video*, and *Mixed*) supported by MAX (FIG. 28):

FIG. 28 Main Page - Playlist Types

- **Audio**: Contains audio items only, including entire CDs or individual tracks.
- **Video**: Contains video items only, including entire DVDs, individual DVD chapters, and Bookmarks.
- **Mixed**: Includes both video and audio elements.

You can create as many Playlists as you like, and there is no limit to the number of items that can have in each Playlist.

The process of creating and editing Playlists is identical for the three different types of Playlists. The only difference between Audio and Video Playlists is in locating and selecting the items that you want to add to your Playlists. Again, Mixed Playlists simply contain both audio and video items.

For the purposes of showing how to create and manage Playlists, we will use Audio Playlists as an example in the following subsections.

Creating an Audio Playlist

To add individual tracks from a CD:

Select a CD and open the Music Details page (FIG. 29).

1. Highlight and select **Playlist Add**. This action adds selection checkboxes to the track list (FIG. 29).

FIG. 29 Music Details page - Playlist Add mode

2. Highlight and select the tracks that you want to add to the Playlist. The checkboxes along the right side of the list indicate which tracks have been selected for inclusion on the Playlist.
3. Highlight and select *Save Checked*. This invokes the Music Details - Playlist page (FIG. 30):

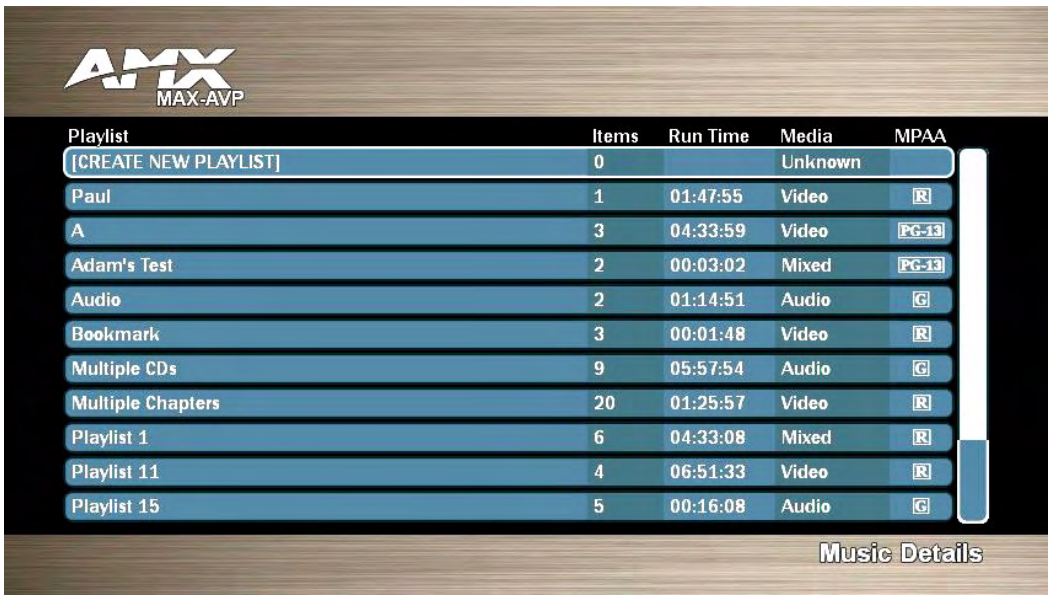


FIG. 30 Music Details - Playlist page

4. At this point, you can choose to either add the selected tracks to an existing playlist, or create a new playlist (as described below):

Creating a New Playlist

1. In the Music Playlist page, highlight and select the top entry – **[CREATE NEW PLAYLIST]**. This action invokes the Playlist Details page (FIG. 31):

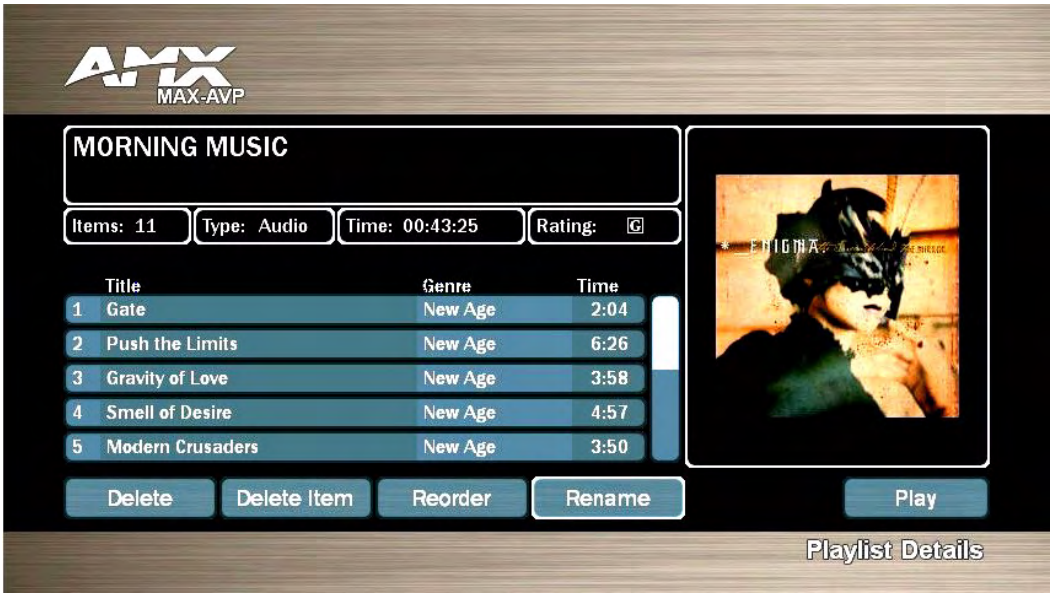


FIG. 31 Playlist Details page

2. Use the options on this page to Delete items from the Playlist, Reorder the items, Rename the Playlist, or Delete the entire Playlist. These options are described in the following subsections.

Highlight and Select **PLAY** to playback the list in the order that is displayed.

Adding Items to an Existing Playlist

1. With one or more tracks selected in the Music Details page (see *Creating a New Playlist* section on page 43), highlight and select **Save Checked**. This invokes the Music Playlist page (FIG. 30 on page 42).
2. Scroll down and highlight the Playlist that you want to add the selected tracks to.
   - You can sort the list by Items, Run Time, Media, or MPAA (rating) by highlighting and selecting any one of the column headings.
   - Use the **SKIP/SCROLL (+ / -)** buttons to page through large lists as opposed to scrolling through each item in the list.
3. Press **ENTER** to invoke the Playlist Details page for the selected Playlist.

NOTE

When adding tracks to an existing Playlist, they are always added to the bottom of the list. You can reorder the Playlist at any time (see the Reorder Items in a Playlist section on page 45 *for details).*

Using the Music Details Page to Play Selected Tracks

You can select multiple tracks in the Music Details Page (in *Playlist Add* mode - see FIG. 29), and select **PLAY** to play the selected tracks, without adding them to a playlist.

Editing Playlists

Use the options along the bottom of the Playlist Details page to edit and delete Playlists:

Renaming Playlists

When a new Playlist is created (see the *Creating a New Playlist* section on page 43), it is given a default name: "Playlist ##", indicating the number of Playlists created previously. For example, if you already have 20 Playlists saved, when you create new Playlist it will be automatically be named "Playlist 21".

You can rename your Playlists at any time to assign more user-friendly names, as described below:

1. Select *Playlist* from the main MAX page, and select *Mixed*, *Video* or *Audio* to locate the Playlist that you want to edit.
2. Highlight and select the Playlist that you want to edit. This invokes the Playlist Details page.
3. Highlight and select *Rename* from the options along the bottom of the page. This action removes the current Playlist title from the top of this page, and places a cursor in the text field.
4. Use the alpha-numeric keypad on the remote controller to enter a new title for this Playlist,
   - The keypad on the remote controller works like most cell-phone keypads: Press the button once to type the first letter of that button ("A" on the "ABC" / #2 button). Press the button again to type the next letter for that button ("B"), and so on.
   - When entering more than one letter that is assigned to the same button on the remote controller, wait until the cursor moves to the next position to enter the letters (approximately 3 seconds): the selected letter is always added to the search field at the cursors position.

When entering a space, allow the 3 second delay before entering the first character after the space, since the space button is also the zero button.

   - Watch the text entry field as you enter letters to verify that you are entering the characters correctly.
5. Press **ENTER** to save your changes.

The SELECT and ENTER buttons on the remote share the same functionality.

Deleting an Item From a Playlist:

1. Select *Playlists* from the main MAX page, and select *Mixed*, *Video* or *Audio* to locate the Playlist that you want to edit.
2. Highlight and select the Playlist that you want to edit. This invokes the Playlist Details page.
3. Highlight and select *Delete Item* from the options along the bottom of the page. This action adds selection checkboxes to the track list.
4. Highlight and select the track(s) that you want to delete. The checkboxes along the right side of the list indicate which tracks have been selected for deletion.
5. Highlight and select *Delete* to remove the selected items.

Reorder Items in a Playlist

1. Select *Playlists* from the main MAX page, and select Mixed, Video or Audio to locate the Playlist that you want to edit.
2. Highlight and select the Playlist that you want to edit. This invokes the Playlist Details page.
3. Highlight and select *Reorder* from the options along the bottom of the page.
4. Highlight an item in the Playlist that you want to move to a different place in the list, and press **SELECT** on the remote controller.
5. Use the **Up** and **Down** arrow buttons on the remote controller to move the selected item to the desired position in the list.
6. Press **SELECT** again to release the item and drop it into the new place in the list.
7. Repeat this process for each item in the list to specify the desired order for playback.
8. When the list is the desired order, highlight and select *OK* to save the Playlist in the specified order.

NOTE

At any point during the process, highlight and select Cancel to return to the Playlist Details page without saving any changes to the order of the list.

Deleting a Playlist From the System

Use the Delete option in the Playlist Details page to delete an entire Playlist from the system. Note that deleting a Playlist does not delete the items (content) included in that Playlist from the MAX Server.

1. Select *Playlists* from the main MAX page, and select Mixed, Video or Audio to locate the Playlist that you want to edit.
2. Highlight and select the Playlist that you want to delete. This invokes the Playlist Details page.
3. Highlight and select *Delete* from the options along the bottom of the page.
4. The system will prompt you to verify this action before the Playlist is permanently deleted (FIG. 32):

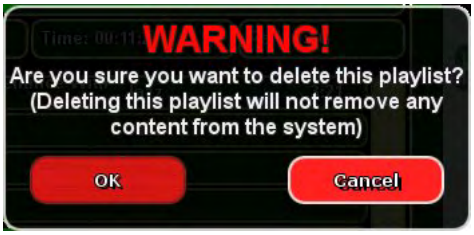


FIG. 32 Verify deleting a Playlist

5. Highlight and select *OK* to proceed.

Recalling Playlists for Playback

Playing an Entire Playlist

1. Select *Playlist* from the main MAX page, and select *Mixed*, *Video* or *Audio* to locate the Playlist that you want to edit.
2. Highlight and select the Playlist that you want to playback. This invokes the Playlist Details page.
3. Highlight and select *Play* from the options along the bottom of the page to begin playback.

Playing an Individual Item in a Playlist

1. Select *Playlist* from the main MAX page, and select *Mixed*, *Video* or *Audio* to locate the Playlist that you want to edit.
2. Highlight and select the Playlist that you want to playback. This invokes the Playlist Details page.
3. Highlight the item that you want to play, and select **PLAY** to begin playback.

Playlist Playback Controls

When playing back Playlists, the DISPLAY button on the remote controller brings up the details of the currently playing item, just as if it were in DVD or CD playback mode. The other controls work the same as they do for DVD or CD playback, with the exception of the **SKIP +/-** buttons, which skip to the next or previous item in the Playlist.

The SKIP functions for Playlists are described below:

- Video Content - Skips to the next item in the Playlist.
- Audio Content (Track) - Skips to the next item in the Playlist.
- Audio Content (CD) - Skips to the next track on the CD.

Setup Page

The options in the MAX-AVP Setup Page allow you to specify various configuration settings and setup options for the AVP. The Setup Page options are separated into four categories, each one represented by a separate tab:

- **Settings**: Use the options in this tab to configure audio/video output settings for the AVP. Refer to the *Setup Page – Settings tab* section on page 47.
- **Tuning**: Use the options in this tab to set the volume level for stereo analog outputs (Volume), and fine-tune video output (Brightness, Contrast Saturation). Refer to the *Setup Page – Tuning tab* section on page 49.
- **Locale**: Use the options in this tab to select preferred content audio and subtitle languages, and to set the region code for the AVP's DVD drive. Refer to the *Setup Page – Locale tab* section on page 49.

Refer to the Changing the DVD Region Code Setting section on page 15 *for instructions.*

- **System Information**: This tab provides a summary of the current system and device settings (read-only). Refer to the *Setup Page – System Information tab* section on page 50.

1. To access the Setup Pages, press **SETUP** on the remote controller. The system prompts you to verify that you want to open the Setup Pages:

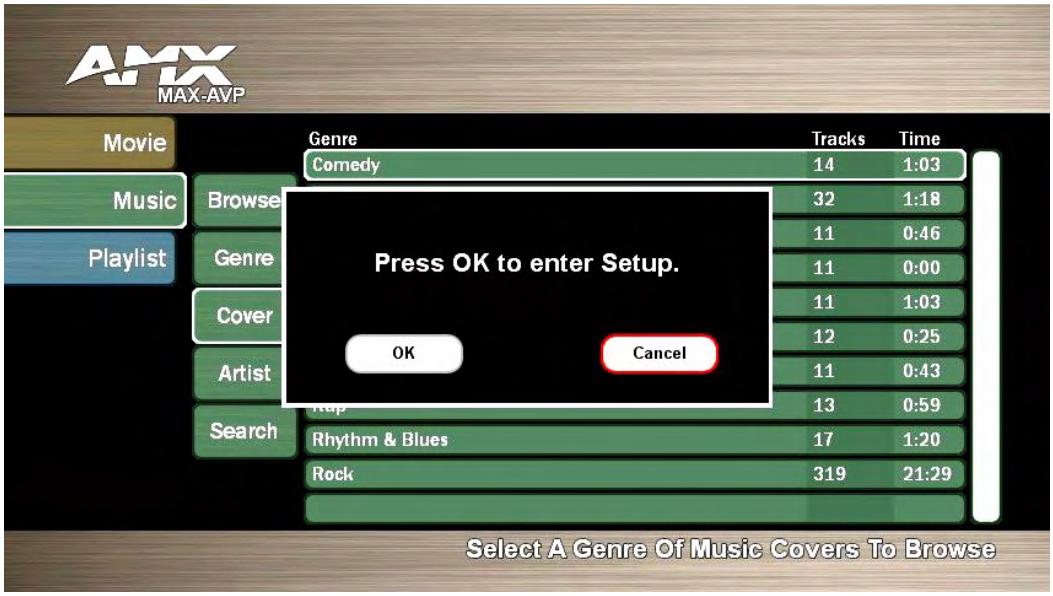


FIG. 33 Entering Setup Pages

2. Highlight *OK*, and press **SELECT** to open the Setup Pages – Settings tab (default view).

Setup Page – Settings tab

The options on the *Settings* tab are described below (FIG. 34):

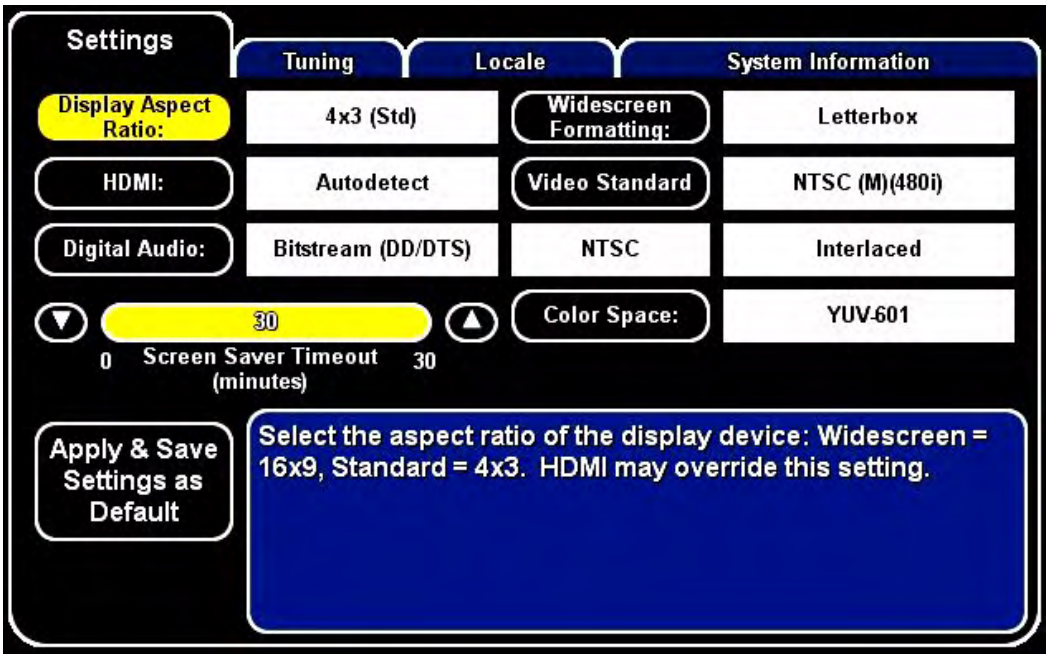


FIG. 34 Setup Page - Settings tab

- **Video Standard**: Press **SELECT** to set the video standard for the display device:
  - NTSC (M) - ***default***
  - NTSC (M) Japan
  - PAL (BG)

- PAL M
- PAL 60
- 480p59
- 576p50

- **Display Aspect Ratio**: Press **SELECT** to set the aspect ratio for the display device:
  - *Widescreen* = 16 x 9
  - *Standard* = 4 x 3
- **Digital Audio**: Press **SELECT** to set the format of audio sent via the S/PDIF digital connection PCM or Bitstream (DD/DTS)). PCM of no decoder is present in the attached device, Bitstream if a Dolby Digital or DTS decoder is present.
- **HDMI**: Select whether HDMI should auto-detect the video mode from the display, or be manually fixed to the specified video standard (***default* = AUTODETECT**).

  If HDMI is set to **MANUAL**, the *Video Standard* setting (see above) only selects modes for HDMI (i.e., the mode selected with *Video Standard* will not influence the analog outputs).

  If HDMI is set to **AUTODETECT**, and the AVP is connected via HDMI, the *Video Standard* setting is disabled.

HDMI shuts off the Composite, S-VIdeo and Component outputs.

- **Widescreen Formatting**: Select the formatting mode for widescreen content playback on a standard aspect ratio display.
  - *Pan-and-Scan*: fills the screen
  - *Letterbox*: retains the film's actual aspect ratio

  Some DVDs do not support widescreen formatting, in which case this option has no effect.
- **Color Space**: Select the colorspace for the display. The options are:
  - *YUV-601* (Consumer component video – ***default***)
    Leave the Color Space setting on YUV-601 if you are connecting via composite or SVideo.
  - *YUV-709* (some professional equipment)
  - *RGB 0-255* (some projectors and monitors)
- **Screen Saver Timeout (minutes):** Increase/decrease screensaver timeout in increments of 1 minute by selecting the Up or Down arrow and pressing SELECT.
  A setting of zero disables the screensaver.
- **Apply & Save Settings as Default:** Apply the current settings and save them as the default. If video settings were changed, they will be tested for 10 seconds. Confirm to save, cancel or wait for timeout to revert to previous settings.

On exiting the Setup page, the system will prompt you to save any changes, if any settings have been changed.

Setup Page – Tuning tab

Use the options in the *Tuning* tab (FIG. 35) to set the volume level for stereo analog outputs (Volume), and fine-tune video output (Brightness, Contrast Saturation).

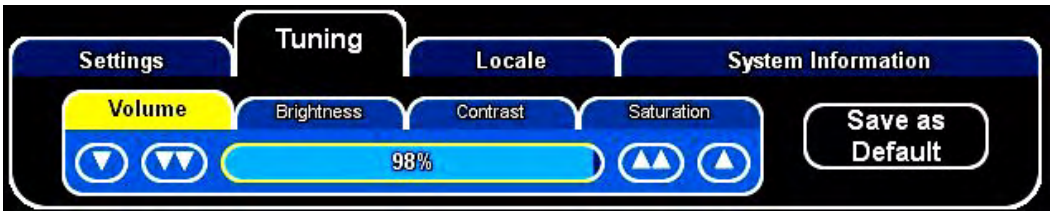


FIG. 35 Setup Page - Tuning tab

Select one of the four tabs, and use the Up/Down arrow buttons to adjust the selected setting.

- Select the double arrow to make quick adjustments by pressing SELECT.
- Select the single arrow to make fine adjustments by pressing SELECT.

Setup Page – Locale tab

Use the options in the *Locale* tab (FIG. 36) to select preferred content audio and subtitle languages, and to set the region code for the AVP's DVD drive.

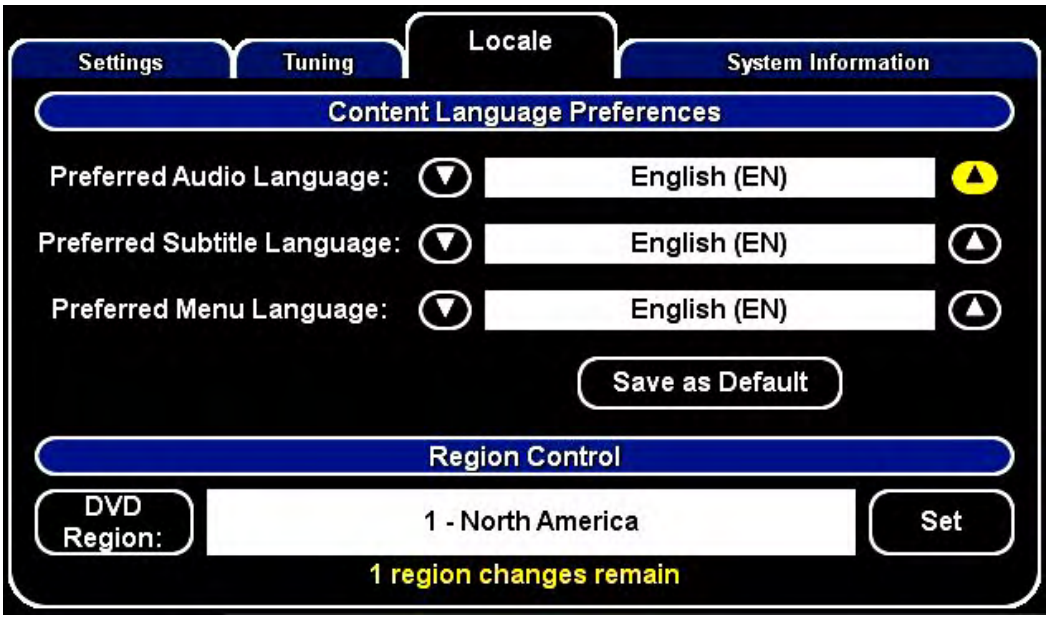


FIG. 36 Setup Page - Locale tab

To change these settings, select the Up or Down arrow for setting that you want to change, and press SELECT to scroll through the possible choices.

- English (EN) is the default setting.
- Refer to the *DVD Language Codes* section on page 51 for a full listing of supported languages and their associated language codes.
- Highlight and select **Save as Default** to save the current language preferences as the default settings.

Use the options in the **Region Control** section of this page to change the DVD Region Code setting for the DVD drive in the MAX-AVP (FIG. 37):

FIG. 37 Locale tab - Region Control

- The current region code setting is indicated in the text field (**default = region 1 – N. America**).
- The region code setting can be changed up to four times. The number of region code changes that are still allowed on this AVP is indicated beneath the text box.

NOTE

Refer to the Changing the DVD Region Code Setting section on page 15 *for instructions on changing the DVD Region Code setting for the AVP's internal DVD drive.*

Setup Page – System Information tab

The System Information tab (FIG. 38) displays a summary of the current system and device settings (read-only):

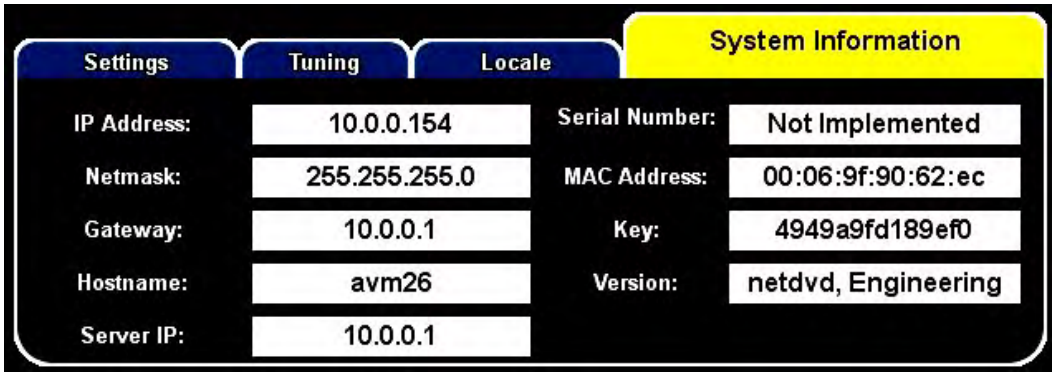


FIG. 38 Setup Page - System Information tab

DVD Language Codes

The MAX-AVP supports the following languages and language codes:

DVD Language Codes			
Language	**Code**	**Language**	**Code**
1. Abkhazian	AB	69. Lithuanian	LT
2. Afar	AA	70. Macedonian	MK
3. Afrikaans	AF	71. Malagasy	MG
4. Albanian	SQ	72. Malay	MS
5. Amharic, Ameharic	AM	73. Malayalam	ML
6. Arabic	AR	74. Maltese	MT
7. Armenian	HY	75. Maori	MI
8. Assamese	AS	76. Marathi	MR
9. Aymara	AY	77. Moldavian	MO
10. Azerbaijani	AZ	78. Mongolian	MN
11. Bashkir	BA	79. Nauru	NA
12. Basque	EU	80. Nepali	NE
13. Bengali, Bangla	BN	81. Norwegian (Norsk)	NO
14. Bhutani	DZ	82. Occitan	OC
15. Bihari	BH	83. Oriya	OR
16. Bislama	BI	84. Afan (Oromo)	OM
17. Breton	BR	85. Panjabi	PA
18. Bulgarian	BG	86. Pashto, Pushto	PS
19. Burmese	MY	87. Persian	FA
20. Byelorussian	BE	88. Polish	PL
21. Cambodian	KM	89. Portuguese	PT
22. Catalan	CA	90. Quechua	QU
23. Chinese	ZH	91. Rhaeto-Romance	RM
24. Corsican	CO	92. Romanian	RO
25. Hrvatski (Croatian)	HR	93. Russian	RU
26. Czech (Ceske)	CS	94. Samoan	SM
27. Dansk (Danish)	DA	95. Sangho	SG
28. Dutch (Nederlands)	NL	96. Sanskrit	SA
29. English	EN	97. Scots Gaelic	GD
30. Esperanto	EO	98. Serbo-Crotain	SH
31. Estonian	ET	99. Sesotho	ST
32. Faroese	FO	100. Serbian	SR
33. Fiji	FJ	101. Setswana	TN
34. Finnish	FI	102. Shona	SN
35. French	FR	103. Sindhi	SD
36. Frisian	FY	104. Singhalese	SI
37. Galician	GL	105. Siswati	SS
38. Georgian	KA	106. Slovak	SK
39. Deutsch (German)	DE	107. Slovenian	SL
40. Greek	EL	108. Somali	SO
41. Greenlandic	KL	109. Spanish (Espanol)	ES

DVD Language Codes (Cont.)			
Language	**Code**	**Language**	**Code**
42. Guarani	GN	110. Sundanese	SU
43. Gujarati	GU	111. Swahili	SW
44. Hausa	HA	112. Svenska (Swedish)	SV
45. Hebrew	IW	113. Tagalog	TL
46. Hindi	HI	114. Tajik	TG
47. Hungarian	HU	115. Tatar	TT
48. Islenka (Icelandic)	IS	116. Tamil	TA
49. Indonesian	IN	117. Telugu	TE
50. Interlingua	IA	118. Thai	TH
51. Interlingue	IE	119. Tibetian	BO
52. Inupiak	IK	120. Tigrinya	TI
53. Irish	GA	121. Tonga	TO
54. Italian	IT	122. Tsonga	TS
55. Japanese	JA	123. Turkish	TR
56. Javanese	JW	124. Turkmen	TK
57. Kannada	KN	125. Twi	TW
58. Kashmiri	KS	126. Ukranian	UK
59. Kazakh	KK	127. Urdu	UR
60. Kinyarwanda	RW	128. Uzbek	UZ
61. Kirghiz	KY	129. Vietnamese	VI
62. Kirundi	RN	130. Volapuk	VO
63. Korean	KO	131. Welsh	CY
64. Kurdish	KU	132. Wolof	WO
65. Laothian	LO	133. Yiddish	JI
66. Latin	LA	134. Yoruba	YO
67. Latvian, Lettish	LV	135. Xhosa	XH
68. Lingala	LN	136. Zulu	ZU

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